GoldStar

VHS VIDEO CASSETTE RECORDER

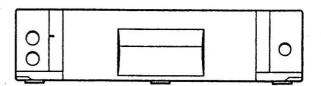
SERVICE MANUAL

CAUTION

BEFORE SERVICING THE CHASSIS, READ THE"SAFETY PRECAUTIONS" IN THIS MANUAL

NOTE)

The deck mechanism of this VCR is **D-17**. This section is provided separately. When checking the mechanical problems, refer to the manual (Part No. 494-004K) provided separately.



MODEL: QUISY 40



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MECHANISM

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SECTION 1 SUMMARY

KEY TO ABBREVIATIONS

A	AC ACC ADJ A/E	: Alternating Current : Automatic Color Control : Adjust : Audio Erase	L	L LD LECHA LP	: Low, Left, Coil : LED : Letter Character : Long Play
	AFC	: Automatic Frequency Control		LPF	: Low Pass Filter
	AFT	: Automatic Fine Tuning	м	MAX	Maximum
	AGC	: Automatic Gain Control		MD	Modulator
	ALC	: Automatic Level Control		MIC	: Microphone
	AM	Amplitude Modulation		MIN	: Minimum
	AMP	Amplifier		MIX	Mixer, Mixing
	ANT	Antenna		M.M.	: Mono Multi Vibrator
	APC	: Automatic Phase Control		MMV	: Monostable Multivibrator
	ASS'Y	Assembly		MOD	: Modulation, Modulator
	AUD	Audio		MODEM	: Modulator-Demodulator
	AUTO	: Automatic			
	AUX	Auxiliary	N	NR	: Noise Reduction
_			0	OSC .	: Oscillator
В	В	Base	-	OSD	: On Screen Display
	BPF	: Bandpass Filter	Р	PB	: Playback
	BW or B/W	Black and White	Р		: Printed Circuit Board
С	С	: Capacitor, Chroma, Collector		PCB PG	: Pulse Generator
	CAN	Cancel			
	CAP	Capstan		PLL	: Phase Locked Loop
	CATV	: Cable Television		P-P	: Peak-to-Peak
	CBA	: Circuit Board Assembly		PRE-AMP	: Preamplifier
	CCD	: Charge Coupled Device		PS	: Phase Shift
	CFG	: Capstan Frequency Generator		PWM:	: Pulse Width Modulation
	CH	Channel	Q	Q	Transistor
	CHROMA	Chrominance		ФH	: Quasi Horizontal
	CLK	Clock		QSR	: Quick Setting Record
	CNR	: Chroma Noise Reduction		QTR	: Quick Timer Record
	COMB	Combination		QV .	: Quasi Vertical
	000	Comb Filter	_	R	
	COMP	: Comparator	R		Resistor, Right
	COIVII	Composite		RE(or RC)	: Remocon, Receiver
		Compensation		REC	: Recording
	CONV	: Converter		REF	: Reference
	CS	: Chip Select		REG	: Regulated, Regulator
		: Cassette		REMOCON	: Remote Control(unit)
	CST	: Control		REV	: Reverse
	CUR	: Current		REW	: Rewind
				RF	
	CVI			DI	: Radio Frequency
	CYL	: Cylinder		R/P	: Record / Playback
D.	CYL	: Cylinder : Drum, Digital, Diode, Drain		R/P RTC	: Record/Playback : Real Time Counter
D.	CYL	: Cylinder : Drum, Digital, Diode, Drain : Decibel	s	R/P RTC	: Record/Playback : Real Time Counter
D.	D dB	: Cylinder : Drum, Digital, Diode, Drain : Decibel : Direct Current	s	R/P RTC S	: Record / Playback : Real Time Counter : Serial
D.	D .	: Cylinder : Drum, Digital, Diode, Drain : Decibel : Direct Current : Demodulator	s	R/P RTC S SH	: Record/Playback : Real Time Counter : Serial : Shift
D.	CYL D dB DC DEMOD DET	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector	s	R/P RTC S SH SHARP	Record / Playback Real Time Counter Serial Shift Sharpness
D	CYL D dB DC DEMOD DET DEV	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation	s	R/P RTC S SH SHARP SIF	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency
D ···	CYL D dB DC DEMOD DET DEV	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector	S	R/P RTC S SH SHARP SIF SLD	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking
D	CYL D dB DC DEMOD DET DEV DHP	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass	s	R/P RTC S SH SHARP SIF SLD S/N	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio
D .	CYL D dB DC DEMOD DET DEV DHP DIGITRON	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube	S	R/P RTC S SHARP SIF SLD S/N SP	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play
D ···	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Delay Line	s	R/P RTC S SH SHARP SIF SLD S/N SP SUB	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier
D ···	CYL D: dB DC DC DEMOD DET DEV DHP DIGITRON DL DOC	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator	S	R/P RTC S SH SHARP SIF SLD S/N SP SUB SW or S/W	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch
	CYL D d dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical	s	R/P RTC S SH SHARP SIF SLD S/N SP SUB SW or S/W SYNC	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization
D .	CYL D d d B DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter		R/P RTC S SH SHARP SIF SLD S/N SP SUB SW or S/W SYNC SYNC SYSCON	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control
	CYL D d d B DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EE	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric	s	R/P RTC S SHARP SIF SLD S/N SP SUB SW or S/W SYNC SYSCON T	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil
	CYL D d d B DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E E E E EMP	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Deviation Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis		R/P RTC S SHARP SIF SLD SVN SP SUB SW OT S/W SYNC SYSCON T TP	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil
	CYL D d d B DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E E E EMP EP	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play		R/P RTC S SHARP SIF SLD S/N SP SUB SW or S/W SYNC SYSCON T TP TR	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor
	CYL D D B B B D C D E M D E M D E M D E M D E M D E M D E M D E M D E M D E M E E E E	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer		R/P RTC S SHARP SIF SLD SVN SP SUB SW or S/W SYNC SYSCON T TP TR	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking
	CYL D d d B DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E E E E E E E E E E E E E E E E E E E	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play		R/P RTC S SHARP SIF SLD SW or S/W SYNC TTP TR TRK TRANS	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coll Test Point Transistor Tracking Transformer
	CYL D D B B B D C D E M D E M D E M D E M D E M D E M D E M D E M D E M D E M E E E E	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive		R/P RTC S SHARP SIF SLD SVN SP SUB SW or S/W SYNC SYSCON T TP TR	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking
E	CYL D d d B DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E E E E E E E E E E E E E E E E E E E	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Deviation Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive	Ť	R/P RTC S SHARP SIF SLD S/N SP SUB SW or S/W SYNC SYSCON T T TR TRA TRANS TU	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EE EMP EP EQ ES F FB	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive		R/P RTC S SHARP SIF SLD SVN SP SUB SW or S/W SYNC SYSCON T TP TR TRANS TU UHF	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Transformer Tuner, Take-Up Ultra High Frequency
E	CYL D B B B B B B C D E M D E T D E T D E T D E T D E T D E T D E T D E T D E T D E E E E	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Deviation Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back	T .	R/P RTC S SHARP SIF SLD S/N SY SUD SY SW or S/W SYNC T T TR TR TRANS TU UNREG	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EE EMP EP EQ ES F FB FBC FE	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Drummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Feed Back Feed Back Feed Back Feed Back Feed Feese Full Erase	Ť	R/P RTC S SH SHARP SIF SLD S/N SP SUB SW or S/W SYNC SYSCON T TP TR TR TRANS TU UNREG V	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical
E	CYL D B B B B B B B B B B B B B B B B B B	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Feed Back Feed Back Clamp Full Erase Fast Forward	T .	R/P RTC S SHARP SIF SLD SV SV SV SV SV SYNC SYSCON T TP TR TR TRANS TU UHF UNREG V V	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Col Test Point Transistor Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EE EMP EP EQ ES F FB FBC FE	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Drummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Feed Back Feed Back Feed Back Feed Back Feed Feese Full Erase	T .	R/P RTC S SHARP SIF SLD S/N SP SUB SW or S/W SYNC SYSCON T TP TR TRK TRANS TU UHFF UNREG V VA	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E E EE EMP EP EO ES F FB FB FB FB FF FF FF FG FL	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Feed Back Feed Back Fest Forward Fraguency Generator Fitter	T .	R/P RTC S S SH SHARP SIF SLD SLD SVN SP SUB SW or S/W SYNC SYSCON T TP TR TRK TRANS TU UHF UNREG V VA VCO	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oacillator Voltage Gain Control
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EMP EP EO ES F FB FB FB FF FF FF FF FF FF FF FF FF F	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatucally Sensitive Feed Back Feed Back Feed Back Clamp Full Erase Fast Forward Frequency Generator Fitter Frequency Generator Fitter Frequency Generator Frequency Generator	T .	R/P RTC S SHARP SIF SLD S/N SP SUB SYNC SYSCON T TP TR TRA TRANS TU UHF VA VCO VGC VGC VGC VGC VGC VGC SHARP SHARP SIF SHARP SHARP SIF SHARP SHA	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Gain Control Very High Frequency
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EE EMP EP EQ ES F FB FBC FE FF FG FF FM	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Feed Back Feed Back Feed Forward Frequency Generator Fitter Frequency Generator Frent/Rear	T .	R/P RTC S S SH SHARP SIF SLD S/N SP SUB SW or S/W SYNC SYSCON T TP TR TRK TRANS TU UHF UNREG V V VCO VHF VISS	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EEMP EP EQ ES FF FB FB FB FF FF FF FB FF FF FF FF FF	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatucally Sensitive Feed Back Feed Back Feed Back Clamp Full Erase Fast Forward Frequency Generator Fitter Frequency Generator Fitter Frequency Generator Frequency Generator	T .	R/P RTC S SHARP SIF SLD S/N SP SUB SYNC SYSCON T TP TR TRANS TU UHF UNREG V VA VCO VGC VGC VR VR	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search Variable Resistor or Volume
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EE EMP EP EQ ES F FB FBC FE FF FG FF FM	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fede Back Feed Back Feed Back Fered Back Ferequency Full Erase Frequency Generator Fitter Frequency Modulation Front/Rear Frequency Synthesizer Subcarrier Frequency F	T .	R/P RTC S SHARP SIF SLD S/N SVD SVNC SYSCON T TR TRK TRANS TU UHF UNREG V VA VCO VGC VHF VSync	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controll Very High Frequency VHS Index Search Variable Resistor or Volume Vertical Synchronization
E	CYL D dB DEMOD DEMOD DETV DEV DHP DIGITRON DL DOC D/V E EE EMP EP FF FB FB FB FB FF FB FB FF FB FF FF FB FF FF	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fede Back Feed Back Feed Back Fered Back Ferequency Full Erase Frequency Generator Fitter Frequency Modulation Front/Rear Frequency Synthesizer Subcarrier Frequency F	T .	R/P RTC S SHARP SIF SLD S/N SP SUB SYNC SYSCON T TP TR TRANS TU UHF UNREG V VA V-SYNC VSS VR V-SYNC VTG	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search Variable Resistor or Volume Vertical Synchronization Voltage
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EMP EP EQ ES F F F F F F F F F F F F F F F F F F	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Feed Back Feed Back Clamp Full Erase Fast Forward Frequency Generator Fitter Frequency Modulation Front/Rear Frequency Synthesizer Subcarrier Frequency Forward	T .	R/P RTC S SHARP SIF SLD S/N SP SUB SW or S/W SYNC SYSCON T T TR TR TRANS TU UHF UNREG V VA VCO VGC VHF VISS VR VSync VTG VYSync VTG VYSync VTG VY	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search Variable Resistor or Volume Vertical Synchronization Voltage Voltage Voltage Voltage Voltage Voltoge
E	CYL D B B B B B B B B B B B B B B B B B B	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Feed Back Feed Back Clamp Full Erase Fast Forward Fraguency Generator Filter Front/Rear Frequency Modulation Front/Rear Frequency Synthesizer Subcarrier Frequency Frequency Voltage Forward Generator Generator	T .	R/P RTC S SHARP SIF SLD S/N SP SUB SYNC SYSCON T TP TR TRANS TU UHF UNREG V VA V-SYNC VSS VR V-SYNC VTG	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search Variable Resistor or Volume Vertical Synchronization Voltage
E	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EMP EP EQ ES F F F F F F F F F F F F F F F F F F	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Feed Back Feed Back Clamp Full Erase Fast Forward Frequency Generator Fitter Frequency Modulation Front/Rear Frequency Synthesizer Subcarrier Frequency Forward	T U V	R/P RTC S S SH SHARP SIF SLD SLD SV SV SYNC SYSCON T TP TR TRK TRANS TU UHF UNREG V VA VCO VHF VISS VR VS	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volti, Vertical Always Voltage Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search Variable Resistor or Volume Vertical Synchronization Voltage Index Search Voltage Voltage Voltage Search Voltage Search Voltage Search Voltage Voltage Voltage Voltage Voltage Testage Voltage
E	CYL D B B B B B B B B B B B B B B B B B B	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Feed Back Feed Back Clamp Full Erase Fast Forward Fraguency Generator Filter Front/Rear Frequency Modulation Front/Rear Frequency Synthesizer Subcarrier Frequency Frequency Voltage Forward Generator Generator	T .	R/P RTC S SH SHARP SIF SLD S/N SP SUB SYNC SYSCON T TP TR TRA TRANS TU UHFE V VA VCO VGC	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search Variable Resistor or Volume Vertical Synchronization Voltage Voltage Voltage Voltage Voltage Voltoge
E F	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EMP EP EQ ES F F F F F F F F F F F F F F F F F F	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatucally Sensitive Feed Back Feed Back Clamp Full Erase Feat Foroward Frequency Generator Filter Frequency Modulation Front/Rear Frequency Synthesizer Subcarrier Frequency Frequency Voltage Foroward Generator Generator Generator Generator Generator Generator	T U V	R/P RTC S SHARP SIF SLD S/N SVD SVNC SYSCON T TR TR TRANS TU UHF UNREG V VA VCO VGC VHF VSync VSSVR VSVR VSVR VSVR VSVR VSVR	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Controlled Oscillator Vorsight Frequency Variable Resistor or Volume Vertical Synchronization Voltage Vorlage to Voltage Voltage Voltage to Voltage
E G	CYL D D B D D D D D D D D D D D D D D D D	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Feed Back Clamp Full Erase Feat Boxard Frequency Generator Filter Frequency Synthesizer Subcarrier Frequency Frequency Yorltage Frequency Yorltage Forward Generator	T U V	R/P RTC S SHARP SIF SUD S/N SYP SUB SW or S/W SYNC T TP TR TRANS TU UHFEG V VA VCO VGC	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search Vanable Resistor or Volume Vertical Synchronization Voltage I Search Voltage Gould Search Voltage Voltage Voltage Search Voltage
E F	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E E EMP EP C ES F F F F B F F F F F F F F F F F F F F	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Feed Back Feed Back Feed Back Clamp Full Erase Fast Forward Frequency Generator Fitter Subcarrier Frequency Frequency Voltage Forward Generator Frequency Voltage Forward Generator Ground High, Horizontal Hertz Intergrated Circuit	T U V	R/P RTC S SH SHARP SIF SLD S/N SP SUB SYNC SYSCON T TP TR TRK TRANS TU UHF VSO VG VG VG VG VSO VG VS	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oacillator Voltage Gain Control Very High Frequency UH's Index Search Variable Resistor or Volume Vertical Synchronization Voltage Voltage Voltage Voltage Voltage Voltage Voltage Voltage To Volume Vertical Synchronization Voltage Voltage To Voltage
E G	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EEMP EP EQ ES F FB FB FB FB FC F,R FS F,R F,R FS F,R FR F,R FS F,R FR F,R F,	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Clamp Full Erase Fast Forward Frequency Generator Fitter Frequency Generator Frequency Modulation Front/Rear Frequency Wottage Forward Generator Ground High, Horizontal Hertz Intergrated Circuit	T U V	R/P RTC S S SH SHARP SIF SLD S/N SV SV SYNC SYSCON T T TR TR TRANS TU UHF UNREG V VA VCO VGC VHF VS	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Controlled Oscillator Vortage Faster Variable Resistor or Volume Vertical Synchronization Voltage Vortiage Toured Variable Resistor or Volume Vertical Synchronization Voltage Voltage to Voltage Voltage Voltage Voltage Toured Voltage Vo
E G	CYL D d d B D EMOD DET DEWOD DET DEV DHP DIGITRON DL DOC D/Y E E EMP EP F F F F F F F F F F F F F F F F F F	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Feed Back Feed Back Clamp Full Erase Fast Forward Frequency Generator Filter Frequency Modulation Front/Rear Frequency Voltage Forward Generator Ge	T U V	R/P RTC S SH SHARP SIF SLD S/N SP SUB SYNC SYSCON T TP TR TRK TRANS TU UHF VSO VG VG VG VG VSO VG VS	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Voltage Controlled Oscillator Voltage Gain Control Very High Frequency VHS Index Search Vanable Resistor or Volume Vertical Synchronization Voltage I Search Voltage Gould Search Voltage Voltage Voltage Search Voltage
E G	CYL D dB DC DEMOD DET DEV DHP DIGITRON DL DOC D/V E EEMP EP EQ ES F FB FB FB FB FC F,R FS F,R F,R FS F,R FR F,R FS F,R FR F,R F,	Cylinder Drum, Digital, Diode, Drain Decibel Direct Current Demodulator Detector Deviation Double High Pass Digital Display Tube Delay Line Drop Out Compensator Dummy Vertical Emitter Electric to Electric Emphasis Extended Play Equalizer Electrostatically Sensitive Fuse Feed Back Clamp Full Erase Fast Forward Frequency Generator Fitter Frequency Generator Frequency Modulation Front/Rear Frequency Wottage Forward Generator Ground High, Horizontal Hertz Intergrated Circuit	T U V	R/P RTC S S SH SHARP SIF SLD S/N SV SV SYNC SYSCON T T TR TR TRANS TU UHF UNREG V VA VCO VGC VHF VS	Record / Playback Real Time Counter Serial Shift Sharpness Sound Intermediate Frequency Side Locking Signal to Noise Ratio Standard Play Subtract, Subcarrier Switch Synchrorization System Control Coil Test Point Transistor Tracking Transformer Tuner, Take-Up Ultra High Frequency Unregulated Volt, Vertical Always Voltage Voltage Controlled Oscillator Voltage Controlled Oscillator Vortage Faster Variable Resistor or Volume Vertical Synchronization Voltage Vortiage Toured Variable Resistor or Volume Vertical Synchronization Voltage Voltage to Voltage Voltage Voltage Voltage Toured Voltage Vo

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

· Precautions during Servicing

- 1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- Parts identified by the symbol and shaded () parts are critical for safety.
 Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- 3. Use Specified internal wiring. Note especially:
- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
- 1) Insulation Tape
- 2) PVC tubing
- 3) Spacers
- 4) Insulation sheets for transistor
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.(Fig. 1)
- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15Kg of force in any direction will not loosen it.(Fig. 2)
- 9. Also check areas surrounding repaired locations.

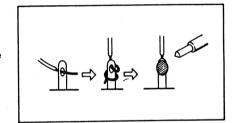


Fig. 1

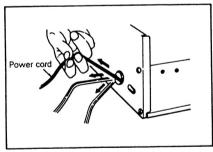


Fig. 2

10. Products using cathode ray tubes (CRTs) In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the parts specified. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

· Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts

of the set(RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

· Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

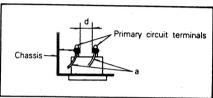


Fig. 3

Table 1:Ratings for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d)
*110 to 130 V 200 to 240 V	Europe Australia	≧10 MΩ/500 V DC	4kV 1 minute	≧6mm(d) ≧8mm(d) (a Power cord)

^{*}Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

Leakage Current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

Measuring Method: (Power ON)
Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

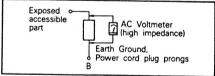


Fig. 4

Table 2:Leakage current ratings for selected areas

AC Line Voltage	Region	Load Z	Leakage Current(i)	Earth Ground (B) to:
100 to 130 V	Europe	∘—	i≤0.7m A peak i≤2m A dc	Antenna earth terminals
200 to 240 V	Australia		i≤0.7m A peak i≤2m A dc	Other terminals

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

INTRODUCTION

This service manual provides a variety of service information. It contains the mechanical structure of the Video Cassette Recorder(VCR) together with mechanical adjustments and the electronic circuits in schematic form.

This VCR was manufactured and assembled under our strict quality control standards and meets or exceeds industry specifications and standards.

FEATURES

- VPS (Video Programming System)
- HQ. High Quality picture enhancement system improves image sharpness and detail
- · Full-Function infrared remote control (OSD programming)
- · Auto Video Head Cleaner
- 8 event/1 year programmable timer with everyday recording
- QSR. Quick Set Recording with stand-by (up to 9 hours)
- · Programmable channel memory with voltage synthesized Tuner (up to 40 positions)
- · Double-Azimuth 4-Head system
- · ACSS (FUNKUHR: Automatic clock setting system) Function
- ACMS plus (Automatic channel memory system)

- · Auto Power and Play Function
- Automatic rewind
- · Back-up time up to 1 year
- · Digital Auto Tracking system Quick Start Function
- Real Time Counter
- Center mechanism
- Child Lock Function Logic Search Function, Jet Search Function
- · LP recording and playback Function
- Monitor Function
- Fine Still, Frame Advance, Variable Slow Function
- · Built-in ShowView Programming
- PREMIERE Compatible
- * ShowView is a trademark applied for by Gemstar Development Corp. ShowView system is manufactured under license from Gemstar Development Corporation.

SPECIFICATIONS

General:

Power Source : Power Consumption:

Video Recording System:

Tape Speed:

Tape Format:

Maximum Recording Time:

FF/Rewind Time: Dimensions (W \times H \times D):

Weight:

Operating Temperature:

Operating Humidity:

Timer:

Video:

Television System:

Recording Format: RF Reception :

RF OUT

Input Level:

Output Level:

Signal to Noise Ratio:

RF Modulator:

Audio:

input Level:

Output Level:

Audio Track:

Audio Frequency Response: Signal to Noise Ratio:

AC 230V ± 10%, 50Hz

Approx, 33 Watts

Double azimuth 4 heads, helical scanning system

23.39mm/sec (SP mode) 11.69mm/sec (LP mode)

Tape Width 1/2" (12.7mm high density tape VHS)

4 Hours at SP mode/8 Hours at LP mode (with E-240 tape)

Less than 300sec (with E-180 cassette)

14.2" × 3.5" × 13.5" (360 × 88 × 342mm)

About 11,24 lbs (5,1kg)

41° F - 95° F (5° C - 35° C)

35% - 80%

24 hours display type

CCIR standard (625lines, 50 fields)

PAL/SECAM Colour signal

PAL/MESECAM PAL B/G

PAL G

VIDEO IN (SCART-PIN type) 1.0Vp-p 75 ohm unbalanced

VIDEO OUT (SCART-PIN type) 1.0Vp-p 75 ohm unbalanced

More than 43dB

UHF Channels 32~40 (Adjustable)

AUDIO IN (SCART-PIN type) 0 dBm more than 50 Kohm

AUDIO OUT (SCART-PIN type) 0 dBm Less than 1Kohm

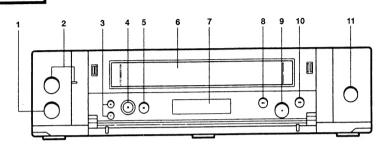
Monotrack type

100Hz-10KHz (*) at SP mode/100Hz -5KHz(+3)at LP mode

More than 43dB

LOCATION OF CUSTOMER CONTROLS

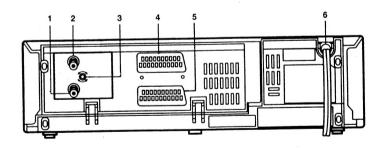
FRONT



- 1 STOP/EJECT BUTTON
- 2 POWER BUTTON AND INDICATOR
- 3. CHANNEL PROGRAMME SELECTORS(+/-)
- 4. RECORD/QSR BUTTON
- 5. PAUSE/STILL BUTTON
- 6. CASSETTE COMPARTMENT

- 7. MULTI-FUNCTION DISPLAY
- 8. REWIND/REVIEW BUTTON
- 9 PLAY BUTTON
- 10. FAST FORWARD/CUE BUTTON
- 11. REMOTE SENSOR WINDOW

REAR

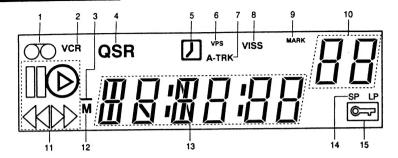


- 1. AERIAL INPUT
- 2. RF OUTPUT
- 3. RF CHANNEL CONTROL

- 4 FURO-AV SOCKET
- 5. PREMIERE SOCKET
- 6. MAINS LEAD

^{*}Designs and specifications are subject to change without notice.

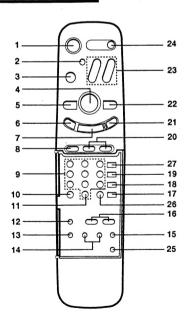
MULTI FUNCTION DISPLAY



- 1. CASSETTE-IN INDICATOR (OO)
- 2. VCR INDICATOR
- 3. MINUS INDICATOR (-)
- 4. QSR INDICATOR (QSR)
- 5. TIMER INDICATOR (刀)
- 6. VPS INDICATOR (VPS)
- 7. AUTO TRACKING INDICATOR
- 8. VISS INDICATOR

- 9. MARK INDICATOR
- 10. SWITCHABLE DISPLAY
- 11. FUNCTION INDICATORS
- 12. MEMORY INDICATOR (M)
- 13. SWITCHABLE DISPLAY
- 14. TAPE SPEED INDICATOR (SP/LP)
- 15. CHILD LOCK INDICATOR

REMOTE CONTROL

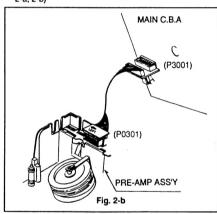


- 1. POWER BUTTON
- 2. OK BUTTON
- 3. MENU BUTTON
- 4. PLAY BUTTON
- 5. REWIND /REVIEW BUTTON
- 6. PAUSE/STILL BUTTON
- 7. STOP BUTTON
- 8. CHILD LOCK BUTTON
- 9. NUMBER BUTTON "0" THROUGH "9"
- 10. TAPE SPEED MODE SELECT BUTTON(LP)
- 11. TU/AV SELECT BUTTON
- 12. AUTO TRACKING BUTTON
- 13. FRAME ADVANCE BUTTON
- 14. SLOW (+/-) BUTTON
- 15. VISS BUTTON
- 16. MANUAL TRACKING BUTTONS
- 17. TAPE COUNTER RESET BUTTON
- 18. CLOCK/TAPE COUNTER MEMORY SELECT BUTTON
- 19. CLEAR BUTTON
- 20. CHANNEL PROGRAMME SELECTORS (+/-)
- 21. RECORD/QSR BUTTON
- 22. FAST FORWARD/CUE BUTTON
- 23. CURSOR BUTTONS
- 24. EJECT BUTTON
- 25. TV/VCR BUTTON: *
- 26. VPS BUTTON: *
- 27. SHOWVIEW BUTTON: ★
- * * : Optional Function

SECTION 2 CABINET & MAIN FRAME SERVICE FIXTURE CONNECTING METHOD

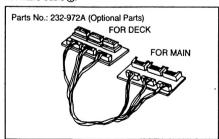
1. SVC FIXTURE Connecting Method

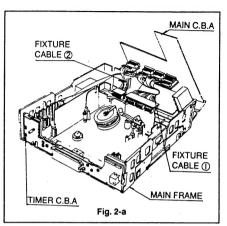
- A. FIXTURE Cable (1) Connecting Method.
- a) Connect the FIXTURE Cable (1) between Main C.B.A and Junction C.B.A. (P2J01, P5J03, P2J02)
- b) At this time, should be in the left side " LEFT" mark on the P.C.B of the FIXTURE Cable (1), (See Fig. 2-a, 2-c)
- c) Connect the connector of "MAIN" mark of FIXTURE Cable (1) with the Main C.B.A and the connector of "JUNCTION" mark with the Junction C.B.A. (See Fig. 2-a, 2-c)
- B. FIXTURE Cable ② Connecting Method.
- a) Connect the FIXTURE Cable ② between Main C.B.A and Pre-Amp Ass'y. (P0301=P3001)
- b) At this time, should be in the left side " LEFT" mark on the P.C.B of the FIXTURE Cable 2. (See Fig 2-a,
- c) Connect the connector of "MAIN" mark of FIXTURE Cable (2) with the Main C.B.A and the connector of "JUNCTION" mark with the Pre-Amp Ass'y. (See Fig. 2-a, 2-b)

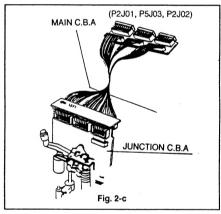


2. Electrical Service Fixture List

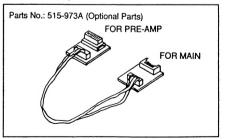
A. Fixture Cable (1).







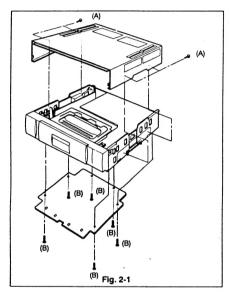
B. Fixture Cable (2).



CABINET DISASSEMBLY

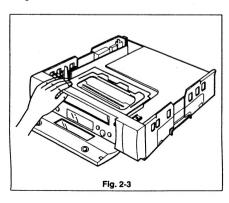
1. Top Case, Bottom Cover

- A. Release 4 screws (A). (See Fig. 2-1)
 B. Hold the back of Top Case and lift it up slightly backward to remove it.
- C. Release 6 screws (B). (See Fig. 2-1)
- D. Hold the Bottom Cover and pull it slightly forward to remove it.



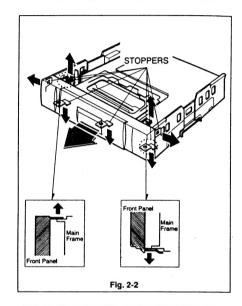
*Caution

When reassemble the Front Panel, assemble it in condition of inserting the Door Cassette inside, as shown in Fig. 2-3.



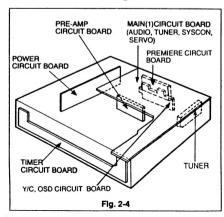
2. Front Panel

- A. Remove the top Case (See Fig. 2-1).
- B. Remove the bottom Cover (See Fig 2-1).
- C. Remove the stoppers on the top of Front Panel.
- D. Remove the stoppers on the bottom of Front Panel.



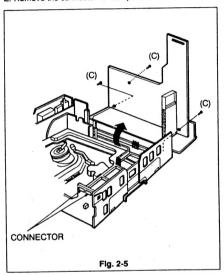
CIRCUIT BOARD DISASSEMBLY

1. Circuit Board Arrangement



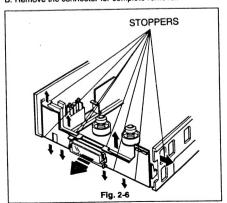
2. Main Circuit Board(I)(Y/C, Audio, Tuner, Syscon, Servo)

- A. Release 3 screws (C).(See Fig. 2-5)
 B. Disconnect the connector between Main Circuit Board and Timer Circuit Board.
- C. Disconnect the connector between Main Circuit Board and Power Circuit Board.
- D. Lift the rear part up and pull the P.C.Board backward.
- E. Remove the connector for complete removal.



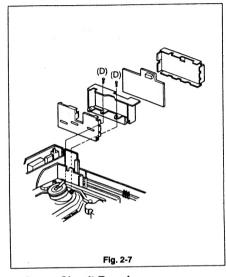
3. Timer Circuit Board

- A. Pull the P.C. Board toward you while pressing 8 stoppers in the direction of the arrows to disengage, and remove the P.C.Board (See Fig. 2-6).
- B. Remove the connector for complete removal.



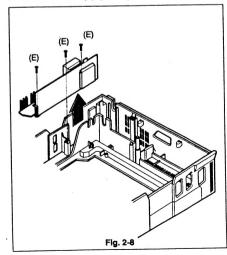
4. Pre-Amp Circuit Board

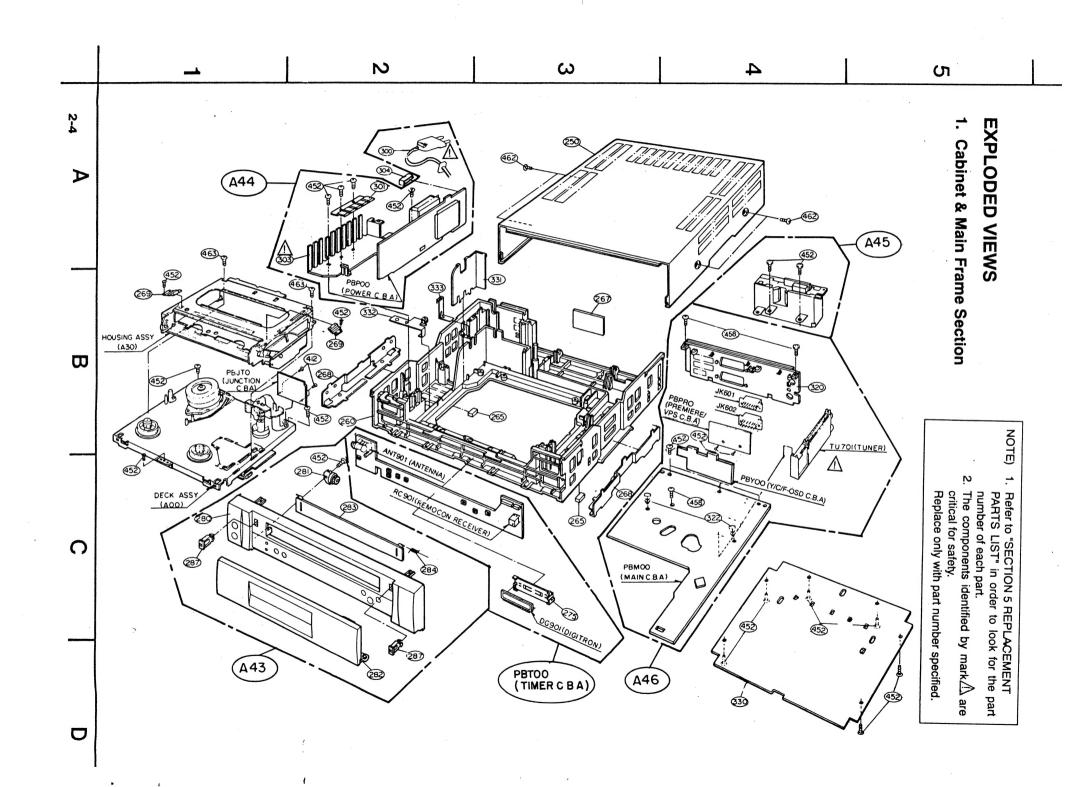
- A Release 2 screw (D)(See Fig. 2-7).
- B. Remove Pre-Amp Package from Main Frame.
- C. Remove bracket Pre-Amp from Pre-Amp Package.
- D. Remove Pre-Amp Circuit Board from Pre-Amp Package.

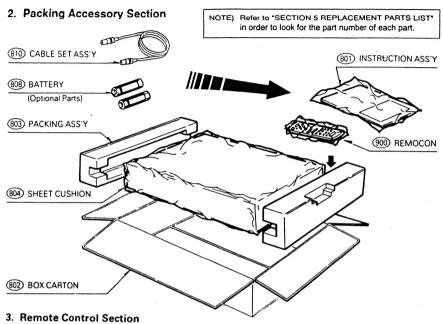


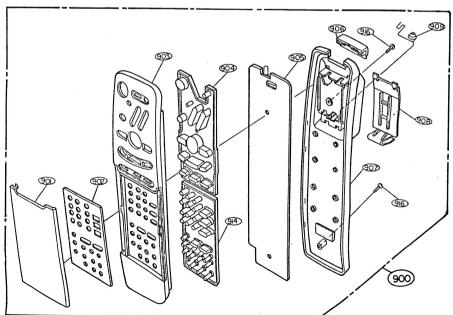
5. Power Circuit Board

- A. Remove Main(I) P.C.Board (See Fig. 2-5).
- B. Release 3 screws(E). (See Fig. 2-8)









SECTION 3 ELECTRICAL ELECTRICAL ADJUSTMENT PROCEDURES

Electronic Test Equipment Requirement:

Oscilloscope

· Level Meter

Frequency Counter

Recording Tape

Video Signal Generator
 Modem Tester

Digital Multimeter

+ DriverTest Tape (SP)

1. Servo Circuit

1) ± PG Adjustment

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT
Playback	6.5H±0.5H (416µsec, 1H=64µsec)	W255 (H.SW TP) Video Out Terminal	VR201

Purpose:

It is for the phase dividing of the Video A,B heads with 180° and the exact tracing of each track to meet head switching point with VHS spec.

Procedure:

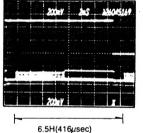
- a. Playback a PAL / SP test tape.
- b. Connect CH-1 terminal of oscilloscope to W255 H.SW, and CH-2 terminal to Video out terminal of VCR.
- c. Trigger the complex Video signal of CH-2 to CH-1 H.SW, and adjust VR201 so that the distance from A(B) head selection point of H.SW signal to the starting point of horizontal synchronized signal is 6.5H (416µsec, 1H=64µsec).

Reference)

- ±PG adjustment is practiced in the state of maximum RF level and locked servo system.
- 2. The deviation between A/B Head adjustment location should be within $\pm 0.5 H(32\mu sec)$.
- 3. The deviation between the specification of adjustment and the practical measurement value should be within $\pm\,0.5\text{H}(32\mu\text{sec})$.
- 4. Oscilloscope and VCR set should be connected with GND.

Waveform

Composite Video Signal



6.5H(416µsec) H.SW (W255)

Flg. 3-1

2. Y/C Circuit

1) EE Level Adjustment

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT
Stop	2 ± 0.1Vp-p	Video Out TP	VR302 EE Level

Procedure:

- a. Connect the Video Signal Generator to Video in terminal.
- b. Connect CH-1 terminal of the oscilloscope to Video Out TP.
- Adjust VR302 so that the value from the lower part of synchronis to 100% white signal is 2 ± 0.1Vp-p.

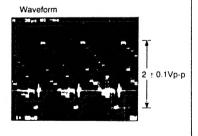


Fig. 3-2

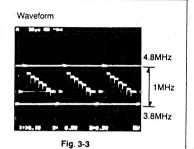
2) FM Carrier Frequency Adjustment

- A. With Modem Tester

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT
Stop	White Peak:4.8 ± 0.05MHz Sync.Tip:3.8 ± 0.05MHz	IC301 Pin (3) (CAR/DEV TP)	VR301

Procedure :

- a. Connect the Video Signal Generator to Video in terminal.
- b. Connect CH-1 terminal of the oscilloscope to modern tester output terminal. (But the set and the modern tester should be connected with 1:1 probe).
- c. Connect input terminal of modem tester to IC301 pin 3.
- d. Input the video signal of 100% white to Video Input Jack.
- The terminal position of modem tester is operated to be ATT. 0dB, PAL/SECAM mode, Demod, Marker on.
- f. Adjust VR301 to right side in left maximum state so that 3.8MHz marker on scope is agreed with the lower part of sync.



- B. Without Modem Tester

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT
E.E mode (without signal)	3.81 ± 0.02MHz	IC301 Pin ³⁹ (CAR/DEV TP)	VR301

Procedure

- Connect the probe of Frequency Counter to CAR/DEV TP.
- Adjust VR301 so that the Frequency Counter is 3.81 ±0.02MHz.

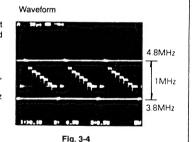
3) FM Deviation Frequency Adjustment

- A. With Modem Tester

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT
Stop	1 ± 0.05MHz	IC301 Pin 49 (CAR/DEV TP)	VR303

Procedure:

- a. Connect the Video Signal Generator to Video in terminal.
- b. Connect CH-1 terminal of the oscilloscope to modern tester output terminal. (But the set and the modern tester should be connected with 1:1 probe).
- c. Connect input terminal of modern tester to IC301 pin 3.
- d. Input the video signal of 100% white to Video Input Jack.
- The terminal position of modem tester is operated to be ATT. 0dB, PAL/SECAM mode, Demod, Marker on.
- f. Adjust VR303 to right side in left maximum state so that 4.8MHz marker on scope is agreed with the level of 100% white signal.



- B. Without Modem Tester

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT
Playback	2.0±0.1Vp-p	Video Out TP	VR303

Procedure:

- a. Connect CH-1 terminal of the oscilloscope to Video Out TP.
- b. Input the Video Signal of 100% white to Video Input Jack.
- c. Adjust VR303 so that the Video Playback Level is 2.0 ± 0.1 Vp-p after recording.

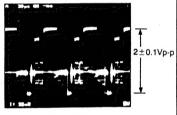
4) Playback Luminance Level Adjustment

MODE SPECIFICATIONS		MEASUREMENT POINT	ADJUSTMENT POINT
Playback(SP mode)	2±0.1Vp-p	Video Out TP	VR305

Procedure:

- a. Connect CH-1 terminal of the oscilloscope to Video Out TP.
- b. Playback a PAL SP test tape (with 100% white signal).
- c. Adjust VR305 so that the Video waveform is 2 ± 0.1 Vp-p.

Waveform



Flg. 3-5

5) Recording Luminance Level Adjustment

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT	
Record	200mVp-p ± 10mVp-p	REC-Y TP	VR304	
Procedure: a. Connect the Video Signaterminal. b. Connect CH-1 terminal of TP. c. Adjust VR304 so that the	the oscilloscope to REC-Y	Waveform	200 ±	
200mVp-p ±10mVp-p.			10mVp-p <u>↓</u>	

Fig. 3-6

3. Audio Circuit

4) A.-dia D/D Hand Azimuth Adjustment

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT
Playback	Maximum	Audio Out Terminal	R/P Head Azimuth
Procedure: a. Connect the Level Met b. Adjust Angle of R/P	playback level to specification. er to Audio out terminal. Head Azimuth so that 1KHZ	the standard tape.	ter is maximum after playing level be maximum to adjust th.
Waveform			
h 300 ₇₀ (E • • • • • • • • • • • • • • • • • • •	A Store M To	-01d9 7
		$\Lambda \Lambda \Lambda \Lambda \Lambda$	ΛΛΛΛΛ

1KHz

Fig. 3-7

2) Record Oscillation Frequency Adjustment

	MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT
	Record	70KHz±5KHz	C403	T401 (Oscillation Coil)
ſ				

Purpose:

This is for adjusting the oscillation frequency to specification in recording.

Procedure:

- a. Connect CH-1 terminal of the oscilloscope to C403.
- b. Connect the frequency counter to C403.

c. Confirm that the oscillation frequency in recording is 70KHz±5KHz.

6KHz

d. At this time, adjust OSC coil(T401) and make the oscillation frequency fit to 70KHz ± 5KHz.

3) Record Bias Adjustment

MODE	SPECIFICATIONS	MEASUREMENT POINT	ADJUSTMENT POINT	
Record .	2.6mVRMS	R401 Both Terminal	VR401	ŀ
				t

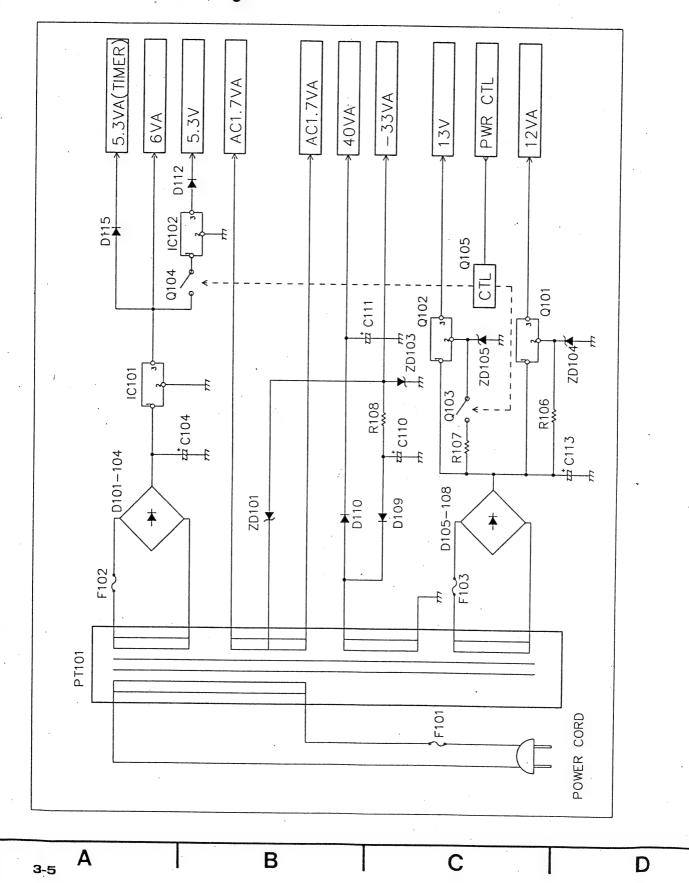
This is adjusting the bias current to specification in recording.

Procedure :

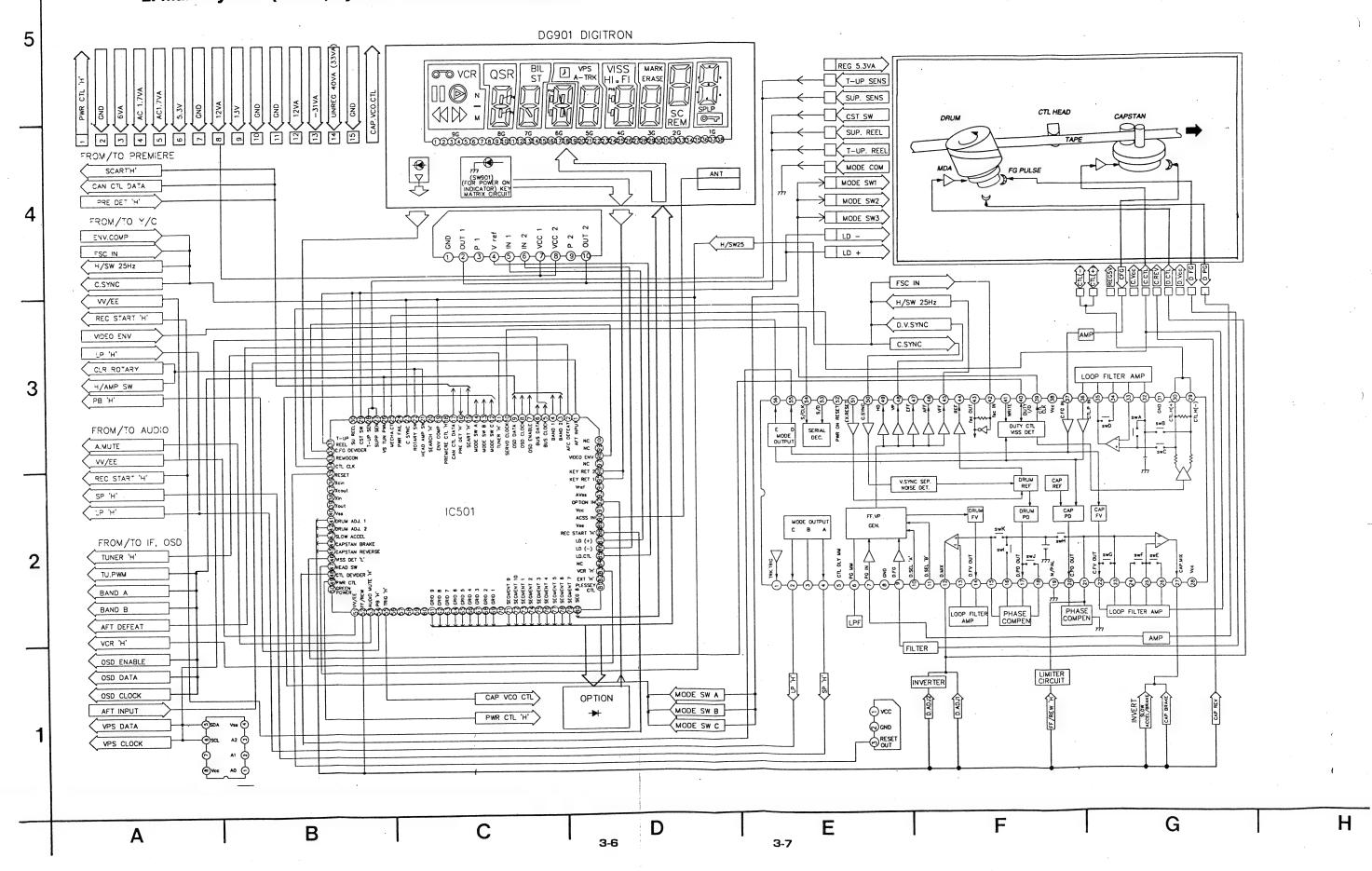
- a. Connect the Level Meter terminal to both terminal
- b. Confirm that the Oscillation Voltage in recording is ____ 2.6mVRMS.
- c. At this time, adjust VR401 and make the oscillation voltage fit to specification.

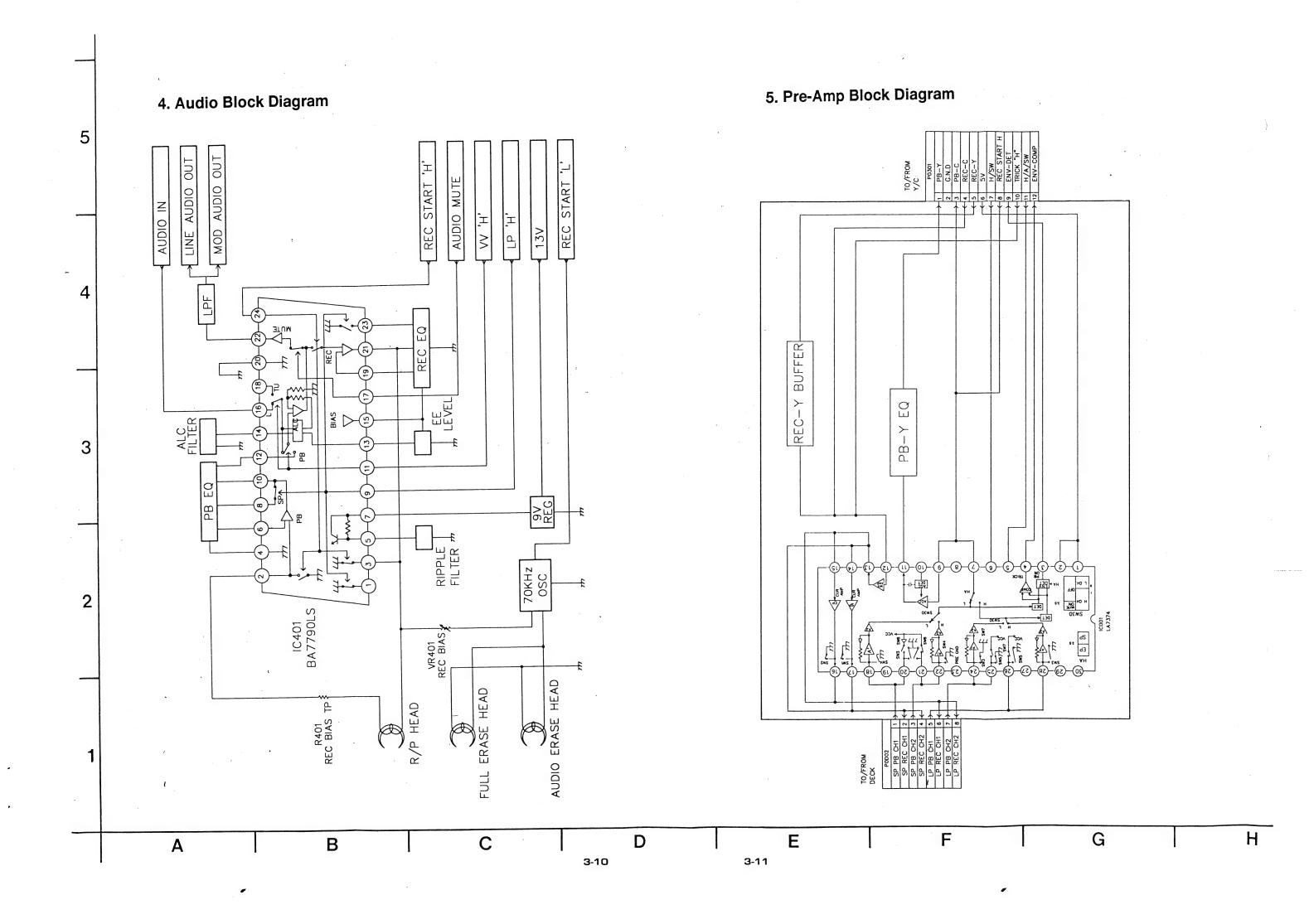
BLOCK DIAGRAMS

1. Power Block Diagram



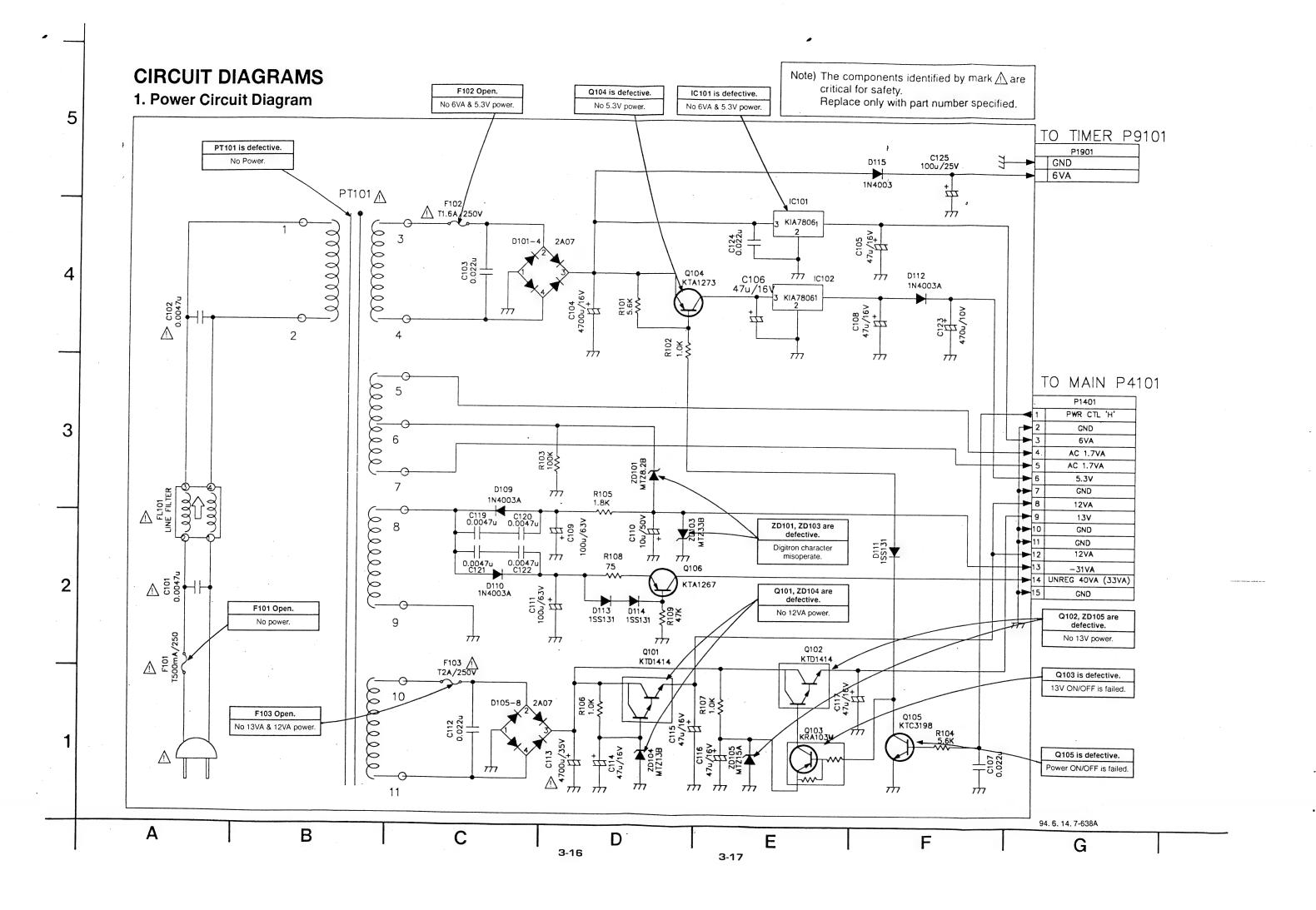
2. Main System (Servo, Syscon, Timer) Block Diagram



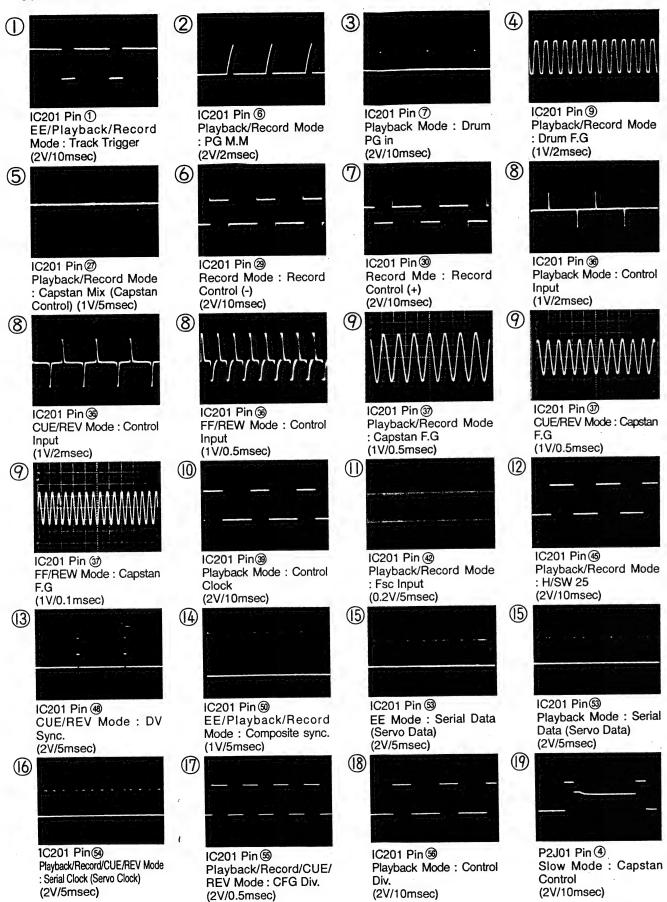


6. Tuner/IF Block Diagram 5 MODULATOR 3 4 5 6 7 MB GND V.IN A.IN TUNER 1 IF-PACK 1 2 BB GND 9 . 16 19 19 29 29 BL AFC TU BU ВН IF BV A.OUT GND AFT GND V.OUT (FROM POWER) TU701 6VA 101 4 L703 i OPTION 7 (FROM POWER) 5V 102 TV/VCR I OPTION (FROM MICOM) VCR 'H' 83 IC701 LA7910 BAND SELECT (FROM OSD) MOD.V.IN (132 NC VCC1 MOD.A.IN (133) (FROM AUDIO) AFC 13VA 122 CONTROL GREEN POWER (FROM POWER) D702 1SS131 R709 6.8K (FROM MICOM) BAND 'B' 3 BAND 'A' 4 UNREG 42VA 121 REG (FROM POWER) 33VA (FROM MICOM) TUNING RWM 26 TUNING CONTROL (TO MICOM) AFC CTL 1 (FROM MICOM) AFC DEFEAT 2 TU.A.OUT (128) (TO SCART) TU.V.OUT (127 (TO SCART)

A B C D E F G H



* Servo Waveform



Servo IC Voltage Sheet IC201 (HD49756NT)

Mode No		Playback		Record	Pin Mode No	F	Playback		Record
1	4.9V 0V		4.9V 0V	ЛП.	39	4V 2.4V 0.8V	1-7-1	2.4V	
② ③ ④ ⑤	0V 0V 4.9V 0V		0V 0V 4.9V 0V	·	· 🐠	3.6V 1.6V	MMMM	3.6V 1.6V	MWWM
6	2.2V 0V	\mathcal{M}	2.2V 0V		30	4.9V		4.9V	
7	5.1V	$\Lambda\Lambda\Lambda$	5.1V		39	4.9V 0V		4.9V 0V	יטטט
8	2V 0V	الالالال	2V 0V	שטטטר	@	4.9V 0V		4.9V . 0V	
9	3.8V	JMML	3.8V	JMML	@	2.7V 2.3V		2.7V 2.3V	
(10)	2.2V 2.6V	Juduuc	2.2V 2.6V	100000	(9)	3.8V 2.0V		3.5V 1.5V	
(1) (1) (2)	2.6V 1.2V		2.6V 1.2V		•	4.9V 0V	\prod	4:9V 0V	ЛЛ
(3) (4) (5) (6)	2.4V 2.4V 2.4V 2.4V		2.4V 2.4V 2.4V 2.4V		(6)	4.9V 0V		4.9V 0V	\prod
(1) (1) (1) (2) (3)	2.4V 2.3V 0V 2.4V		2.4V 2.3V . 0V 2.4V		(6)	4.9V 0V	\prod	٥٧	
1	2.4V		2.4V		•	4.9V 0V	ЛЛ	4.9V 0V	ЛЛ
(A) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	2.4V 2.4V 2.4V		2.4V 2.4V 2.4V		. @ @	0V 0V		0V 0V	
නි ශ ග	2.4V 2.6V 2.6V		2.4V 2.6V 2.6V		99	4.9V		4.9V	
39 39	4.9V 2.4V		4.9V 4.8V			0.2V		0.2V	
	2.4 \$		4.3V 0.5V		(9) (9)	4.9V 3.6V		4.9V 3.6V	
			0V		(3)	4.9V		4.9V	• • • • • •
30	2.4V		4.8V 4.3V 1.2V 0V		99	0.6V 4.9V		0.6V 4.9V	
® ® ®	0V 2.4V 2.4V 2.4V		0V 2.4V 2.4V 2.4V		(8)	0.6V 4.9V 0V		0.6V 4.9V 0V	
3	4.4V 2.4V 0.4V	1	2.4V		99	4.9V 0V		4.9V	

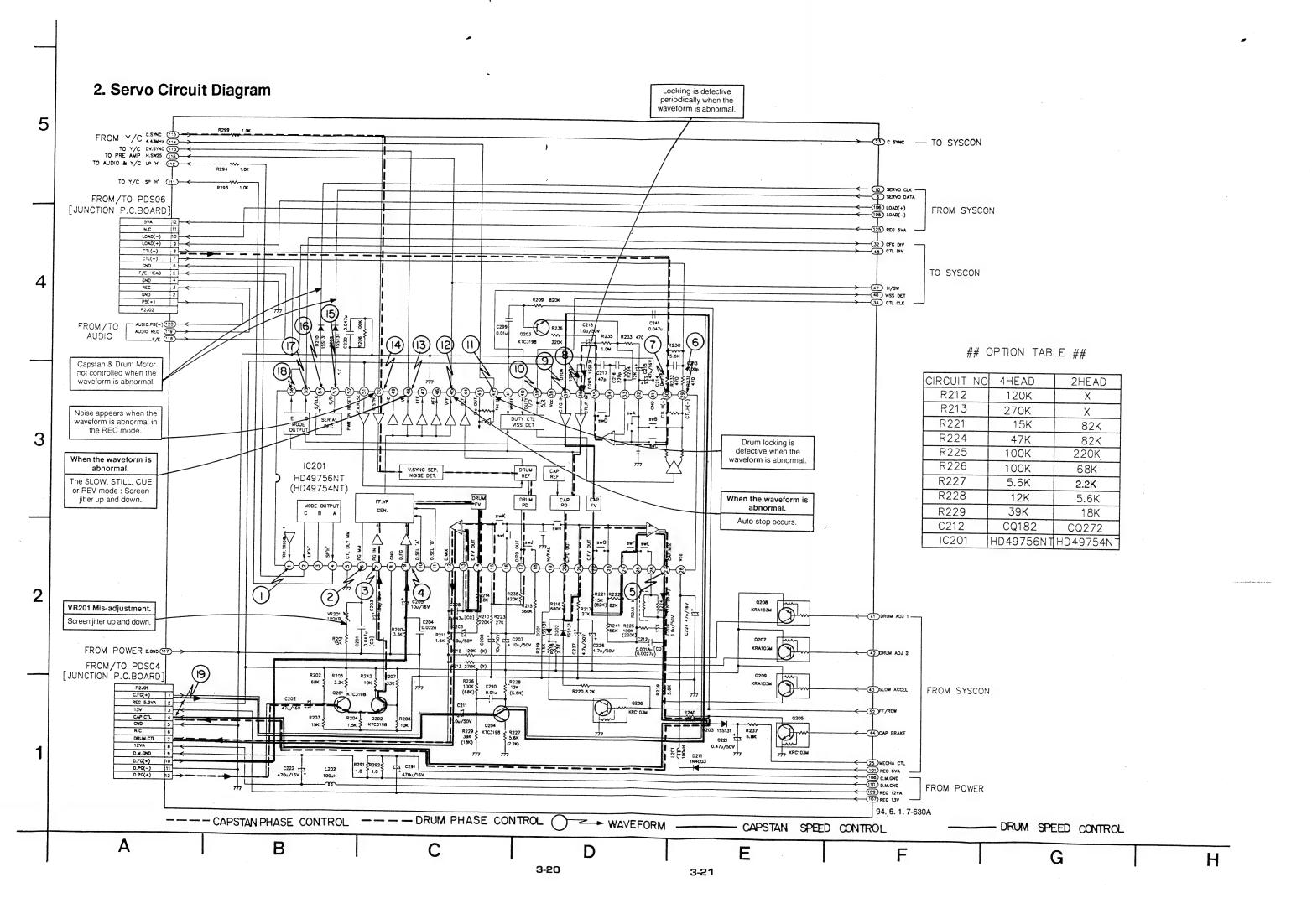
Servo TR Voltage Sheet

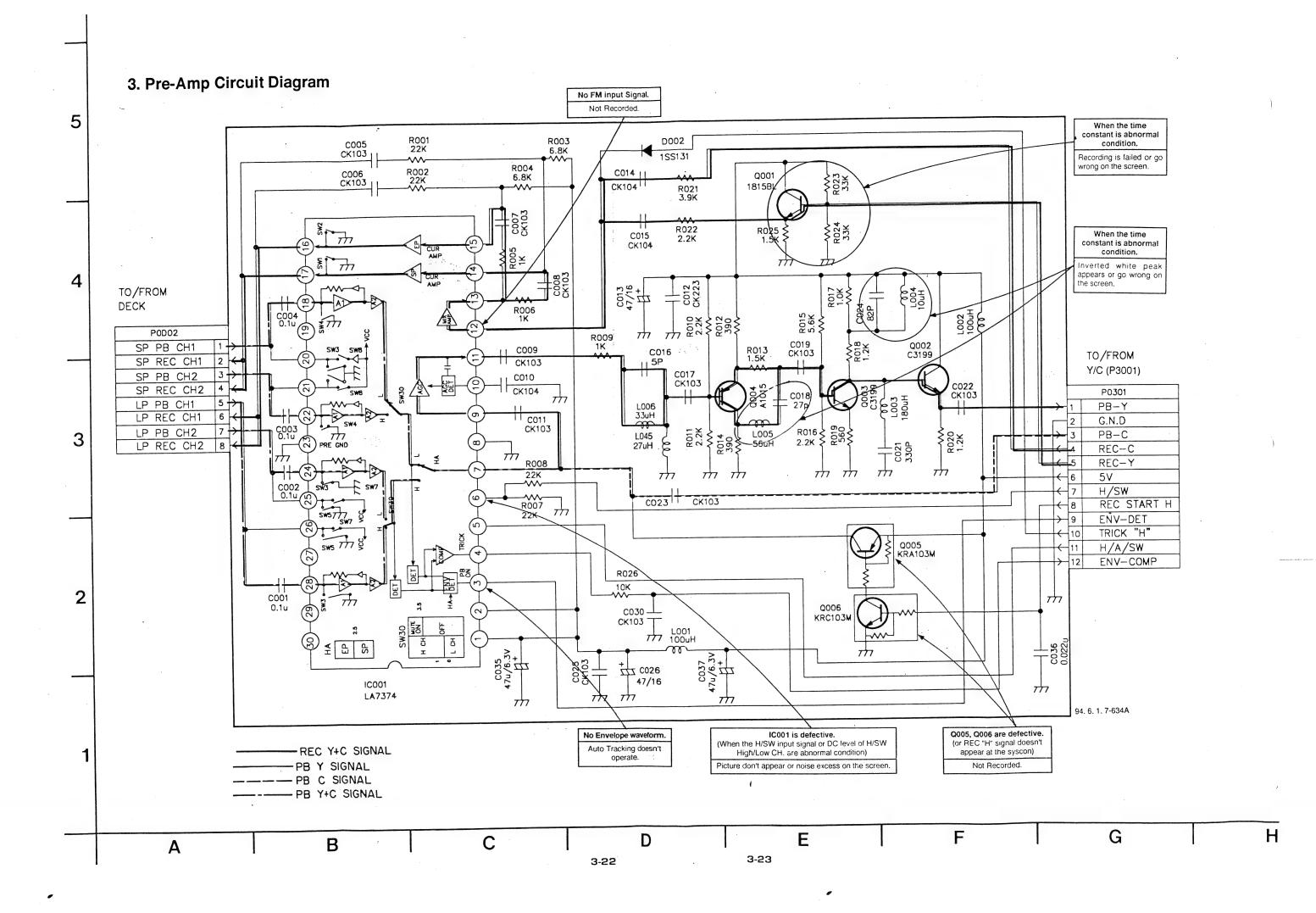
(PB/REC/EE mode)

Port TR No	Emittar		Base
Q201	0.6/0.6/0.6	4.9/4.9/4.9	0.9/0.9/0.9
Q202	0.6/0.6/0.6	1/1/1	1.2/1.2/1.2
Q203	2.45/2.45/2.45	2.4/2.4/2.4	0/0/0
Q204	₩ 1.6	M 4.2	M 2.2
Q205	0/0/5	2.6/2.6/0	0/0/0
Q206	0/0/0	5/5/5	0/0/0
Q207	4.9/4.9/4.9	.2.2/2.2/0	4.9/4.9/4.9
Q208	4.9/4.9/4.9	2.6/2.6/0	4.9/4.9/4.9
Q209	4.9/4.9/4.9	2.2/2.2/0	4.9/4.9/4.9

3-19

3-18





• Pre-Amp IC Voltage Sheet

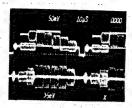
IC001 (LA7374)

	, ,						10001 (LA737.
Pin	 	DC Volt.	Waveform	Pin	Pin Function	DC Volt.	Waveform
1	Vcc	5V			REC Current	PB 1.6V	_
2	Vcc	5V	·.——	15	Amp Input	REC 1.7V	
3	PB Envelope Detection	PB 4V	 .			REC 1.7V	200mVp-p
	Output	REC 2.4V		16	REC Current Amp Output	0V	
	PB Envelope					PB 0V	
4	Comparator Output *Special Playback mode : LP>SP H(4.2V)	OV	_	17	REC Current Amp Output	REC 4.2V	2.6Vp-p
	PB, REC, HA Control	**			PB Pre-Amp	PB 0.6V	
5	*H=LP mode L=SP mode (H : More than 2.5V)	0V		18	Input	REC 0V	100mVp-p
6	PB SW25 Control	2.5V	SW25 MUTE	19	N.C.	0V	
O	REC MUTE Control	2.5V	1V		550	PB 0V	-
7	PB Chroma Output	PB 2V	200mVp-p	20	REC mode Select S/W	REC 4.1V	200mVp-p
	REC H Control	ode : More REC 4.9V —			REC mode	PB 0V	_
	than 3.8V)			21	Select S/W	REC 4.2V	
8	Ground	0V	 -		11	PB 0.6V	
9	PB FM AGC Input	PB 3.6V	200mVp-p	22	PB Pre-Amp	REC 0V	100mVp-p
ļ		REC 3.5V	. 45	23	GND for Pre-Amp	0V	
		DD 0.714	er julija		18 G	PB 0.6V	
10	PB FM AGC Detect	PB 0.7V	_ /	24	PB Pre-Amp Input	REC 0V	100-2/-
			1		REC mode	PB 0V	100mVp-p
11	PB FM AGC Output	PB 2.4V	400mVp-p	25	Select S/W	REC 4.2V	
		REC 4V	——————————————————————————————————————	, c	REC mode	PB 0V	-
	PB Special		r-	26	Select S/W	REC 4.2V	
	Playback Control	PB 2.5V		27	N.C.	0V	
12	(Special PB mode : More than 3.5V)					PB 0.6V	
	1		1		PB Pre-Amp		
	REC MIX Amp Input	REC 1.6V		28			T Legi' Edgining Hilling T
		REC 1.6V	- -	28	Input	REC 0V	100m/o.a
13	REC MIX Amp Input	PB 0V		28	Input N.C.	REC 0V	100mVp-p
13				29		oV	
13		PB 0V	400mVp-p	29	N.C.		

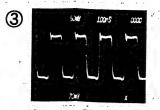
* Y/C Waveform (When taking a photograph of waveform, set probe of oscilloscope to 10:1)



TP PB RF Playback RF (SP mode) (20mV/5msec)



IC301 Pin (4)
Playback Color
(5mV/10µ sec)



IC301 Pin. (8)
Playback Mode : Fsc
Oscillation (20mV/100nsec)



IC301 Pin (8)
Record Mode: Fsc
Oscillation (20mV/200nsec)



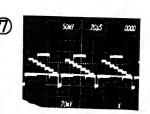
P3001 Pin (1) S/W 25 (100mV/10msec)



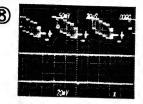
IC301 Pin @ C.SYNC (100mV/20µ sec)



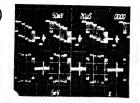
IC301 Pin 30 B.G.P Out terminal (100mV/20µ sec)



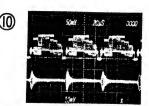
IC301 Pin ③
Clamp Input terminal (20mV/20 μ sec)



TP REC-Y
Record FM signal
(20mV/20µ sec)



Q321 Emitter
Record Color Signal
(5mV/20µ sec)



IC302 Pin (9)
Color Burst signal (10mV/20µ sec)

* Function OSD IC Voltage Sheet

Normal (Blue Screen)											
5.12	1.63 4.55 2.35 2.35 0 0 0 0 0 0 0 0 (1.5) (0) (2.3) (2.4) (0) (0) (0) (0) (0) (0)										
(5.1)	(1.5)	(0)	(2.3)	(2.4)	(0)	(0)	(0)	(0)	(0)		
20 15											
\mathcal{C}		i	C80)1 (l	M 35	010)				
1				5					10		
2.37	2.37	4.9	5.14	5.14	5.09 (5.1)	5.12	2.83	3.56	2.84 (2.7)		
(2.4)	(2.4)	(4.9)	(5.1)	(0)	(5.1)	(5.1)	(2.3)	(3.5)	(2.7)		

Function OSD TR Voltage Sheet (Color Bar Normal Mode)

Port TR No.	Emitter	Collector	Base
Q803	2.4	12.2	2.5
Q804	. 0	1.76	0
Q805	. 0	3.76	0
Q807	3.12	3.12	3.76
Q810	5.52	0	4.83

(Blue back screen state after MENU, PRESET selected)

*			
Port TR No.	Emitter	Collector	Base
Q803	. 2.4	12.5	2.5
Q804	0	0	0.8
Q805	0	0	4.38
Q807	1.68	2.73	0
Q810	5.51	0	4.82

Y/C IC Voltage Sheet IC301 (LA7390)

Pin	Pin Function	DC Volt	Waveform	Pin	Pin Function	DC Volt	Waveform
1 111	i ii i dilettori			10	Ground	0V	
1	Main Deemphasis I.	PB	2.0V			PB	J 2.4V
		REC 0V	_	11	CCD Drive		3_1.80
		РВ	-3V -2.5V		oce eme	REC	-1.8V
2	Main Deemphasis II.		-2.5V	12	Picture Control	2.5V	_
		REC	-2.6V	13	ACC Filter	PB 2.2V	1field
		PB	74			REC 1.5V	~~~
3	CLAMP Input	REC	2.1V	14	Low Band Conversion Chroma Input	PB 2.9V	110mVp-p
	REC/PB select S/W (PB mode : More than 3.8V)	PB 4.2V	_	, ,	Low Band Conversion Chroma Output	REC 3V	150mVp-p
4	Emphasis Output		-2.8V	15	AGC Filter	PB 2.2V	_
		REC				REC 2.4V	_
			<u> </u>	16	REC APC Filter	PB 2.1V	_
		PB 4.2V		-		REC 2.1V	
5	Main Emphasis Filter	REC	-2.8V -2.3V		Xo Input 4.43MHz	PB 3.7V	₩ <u>T</u> 800mVp-p
6	SP S/W(SP mode : More than 3.9V)	PB 4.3V		17	70 mput 4.43ivii 12	REC 3.7V	M <u>T</u> 600m√p-p
	Non Linear Emphasis Filter	REC 4.3V	_	-		PB 2.4V	
	Noise Canceller	РВ	-2.7V	1	Xo Output 4.43MHz	FD 2.4V	1
7	Detail Enhancer	REC	[-2.7V			REC 3.4V	₩ <u>T</u> 600mVp-p
			₩	19	SLD(Side Locked Detect) Filter	3.1V	_
8	VCA Filter	PB 3V		├		,	A . A
-		REC 2.3V		1	APC Filter	PB 3.15V	1field
9	VCA Input	PB	-1.9V	20	AFC Filter	REC 3.15V	7 I 1/f _H 20mVp-p
	1.	REC 1.9V				I	17 1Н

Pin	Pin Function	DC Volt	Waveform	Pin	Pin Function	DC Volt	Waveform	
	Comb Filter Drive			29	Vcc 1	5V	_	
-21		PB 2.4V	450mVp-p 4.43MHz	30	BGP Output		4.2V	
		REC 2.4V	360mVp-p 4.43MHz	31	Video Signal Input	_	-3.7V	
	Color Killer Filter				•		74 -2.7V	
22	(Color mode : 2V Killer mode : 3.1V)	2V –		32	AGC Filter REC/PB1.4V			
	PB Amp Input MESECAM-H	B Amp Input ESECAM-H		33	PB FM Input	PB 3.3V	300mVp-p	
	(MESECAM mode: More than 4V in the condition of PB mode)	2V .	/ 60mVp-p(REC/PB)		AGC Adjust	REC 3.3V	_	
			OOM VP-P(NEC/ 1B)		DOC Stop Control	PB3.3V		
24	Vcc 2	5V	_		(DOC stop for more than 3.9V)		_	
25	REG. 4.2V	4.2V	_	34	(fidit 3.5V)			
26	SYNC Output	_	4.4V -0.2V		FM Output	REC 3V	₩ = 3.5V = 2.6V	
27	D.V SYNC Input (Video Output is mute whenD.C3.5Vis over)			35	H/SW(25Hz) Input	REC/PB	-1.1V 	
28	Video Output	REC/PB	-2.9V -0.9V	36	FM Modulation Input	REC/PB 2.2V	-	

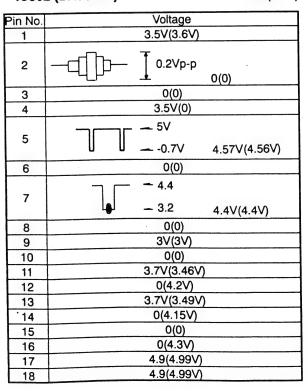
+ CCD IC303 (MSM7403MS)

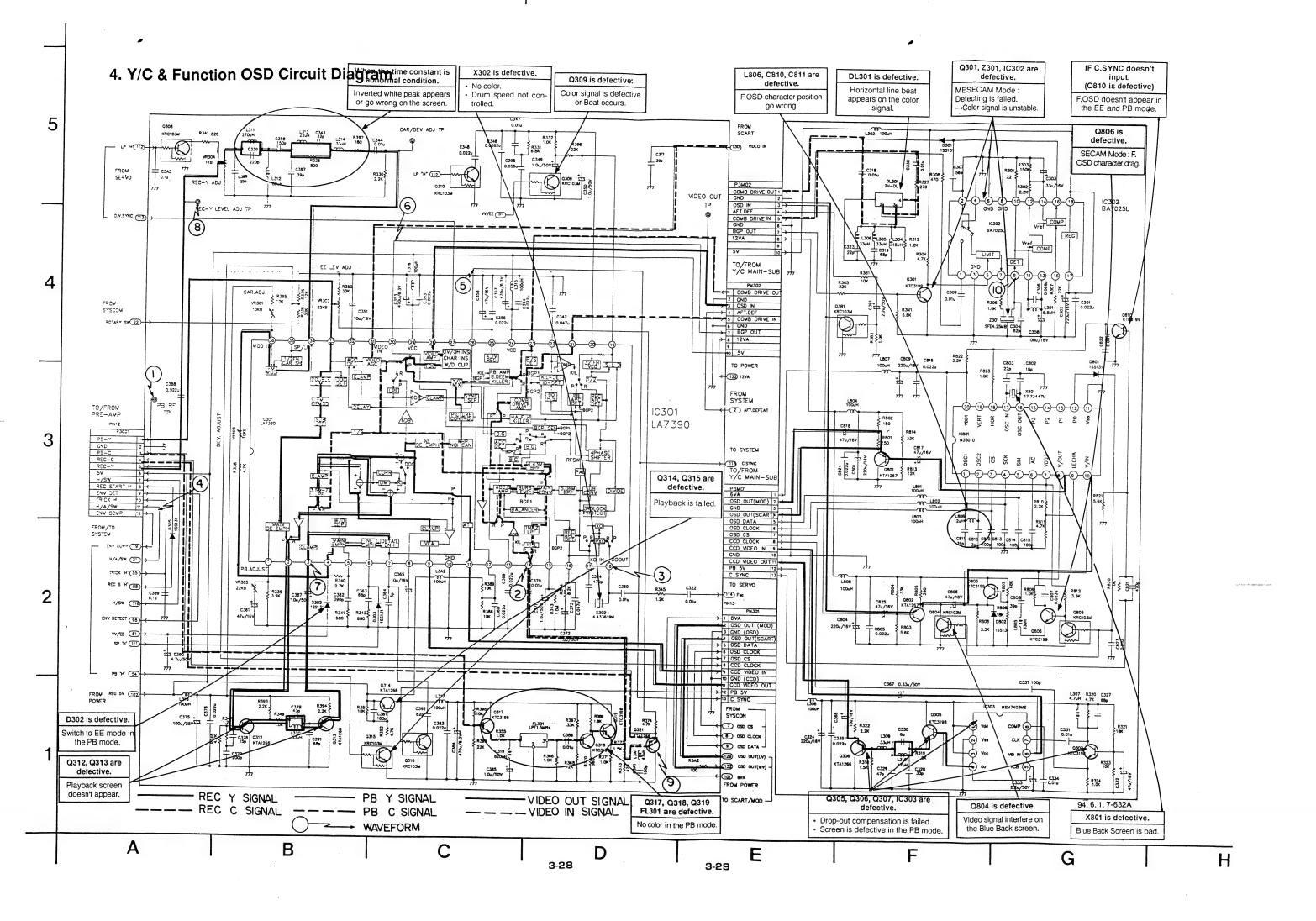
PB(REC)

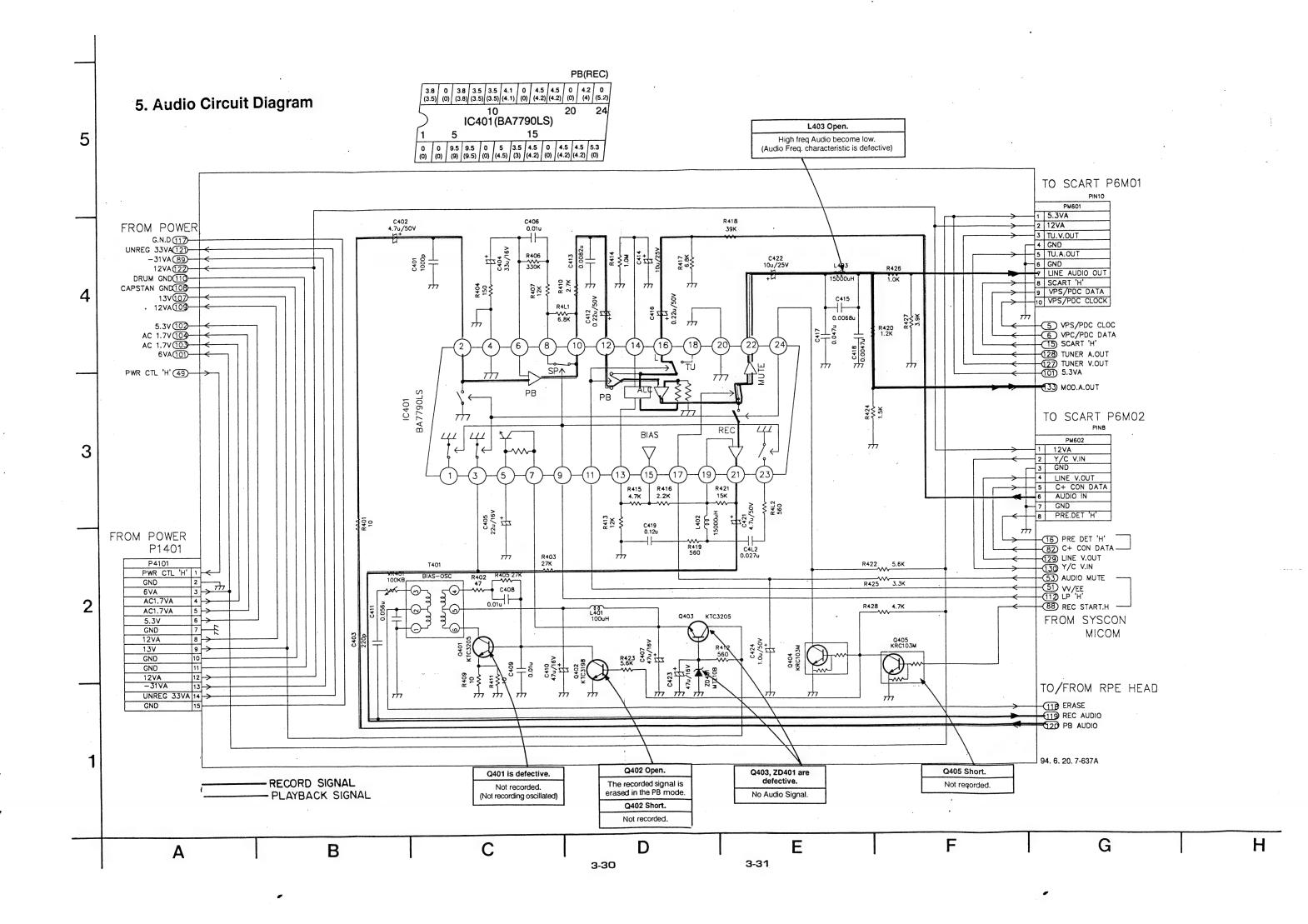
Pin No.	Voltage							
1	0(0)							
2	0(0)							
3	4.8V(4.98V)							
4	ر مرکز م							
4	حباً ^{حم} مل 2.7 _{3.28} V(3.38V)							
5	2V(2.1V)							
6	[~ ~ ~] ~ 2.4							
	. The superior of the superior							
_								
7	- 2.3 2.53V(2.56V)							
8	8.2V(8.47V)							

MESECAM IC302 (BA7025L)

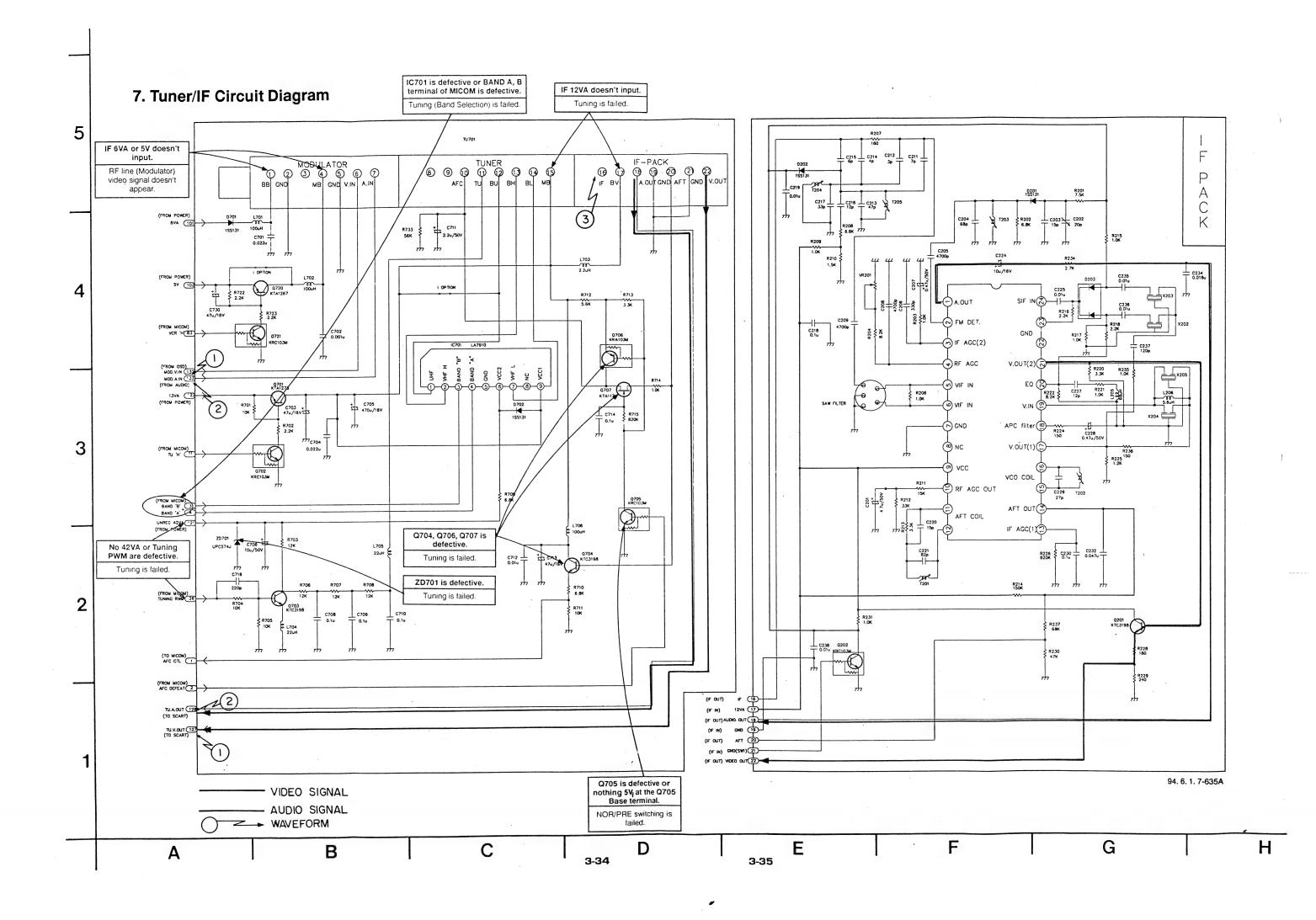
PB(REC)







6. System Control Circuit Diagram D501 is defective. 5 No Power. IC501 not operating. Loading Motor not (All function keys not operating. operating.) FROM/TO SERVO MECHA CT. 25 SERVO CUX (10 GL7445 (LB) 641 TO SERVO FROM Y/C ____ C501 _____ 0.01u FROM POWER TO SERVO REG SYA COS 4 20501 CND O 100uH R543 10K C519 C512 D504 C520 100u/25V 0.022u 15S131 0.047 vcc 🕞 FROM POWER FROM SERVO R554 100K C.FG C/2 (32 NC (ACT) NC KEY RET 2 KEY RET 1 IC501 FROM/TO PDS505 RS20 CS04 CS04 ES30 JUNC P.C.BOARD R-Q504/304P'S' PSJO3 ← PCSSOS] 1 MODE SW C(S3) 2 MODE SW 9(S2) 3 MODE SW 9(S2) 4 MODE COVYON 5 T-UP REEL 7 CST.SW 8 GND 9 SUPP SENSOR 10 T-UP SENSOR 11 C.M.GND [MIT] M38184MA-134FP X801 C511 X502 32/768K 24p E.OM 3 FROM /TO SERVO DRUM ADJ 2 42 SLOW ACCEL 43 CAPSTAN BRAK 44 VISS DETECT 46 HEAD S/W 47 ₹\$22 *X Q502, Q503 are defective. TO TUNER 0502 KRC103M System Control **TR Voltage Sheet** (PB and REC mode) TO PRE-AMP AUDIO & Y/C ---- DIODE OPTION TABLE -----[OPTION DIODE & OPTION] W/O DIODE Collector TR No R545 1.0K R549 1.0K R534 6.8K Q501 4.9 Q502 Q503 0 FROM POWER ACMS PLUS Q504 C518 100u/25V FROM/TO POWER FROM POWER R541 2.7 IC501 not operated 94. 6. 14. 7-631A 3V and below. when the waveform is No Power. IC501 not operating. abnormal. Digitron don't display or (All function keys not (All function keys not is unstable. operating.) operating.) C D E F G H 3-32 3-33



• Tuner/IF TR Voltage Sheet

Port TR No.	Emitter	Collector	Base
Q701 Q702 Q703 Q704 Q705 Q706 Q707 Q720 Q721	12.39 0 0 3.62 0 12.29 4.12 5.23 0	12.34 0 8.99 12.29 12.26 4.12 4.68 5.11	11.65 5.12 0 4.19 0 12.26 4.12 4.43 5.12

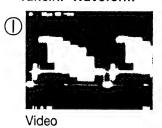
Tuner/IF IC Voltage Sheet Band Select IC701 (LA7910)

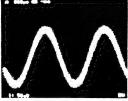
Pin	Pin Function								
1	UHF 12V								
2	VHF High 12	V							
	Band Pin 3 4 1 2 7								
	VHF Low	L	Н	L	L	Н			
3, 4	VHF High	Н	L	L	Н	L			
	UHF	L	L	Н	L	L	П		
	③, ④ High=3V ①, ②, ⑦ High=12V								
5	GND						٦		
6	14VA								
7	VHF Low 12V								
8	N.C								
9	12VA						٦		

• Tuner

ВВ	GND	NC	MOD.V.IN	MOD.A.IN	AFC	TU	BU	вн	BL	MB	IF	BV	A.OUT	GND	AFT	GND	V.OUT
Power			1 Vp-р	-5dBm	DC 4V	DC	UHF	VHF _H	VHFL	DC		DC	2.3Vp-p		DC		
DC 6VA	0	0	0	1.3Vp-p		0~33V	12V	12V	12V	12VA		12VA		0	4V	0	1Vp-p
			-2000	\sim									\bigvee				

• Tuner/IF Waveform







IF spectrum

• Premiere Switching IC IC601 (LA7156)

0dBm=2.3Vp-p

Pin	Pin Function	Voltage
1	Premiere Audio Input ,	0dBm
2	Premiere Detect "H"	DC 5V
3	Line Audio Input	0dBm
4	NC	
5	Tuner Audio Input	0dBm
6		DC 9VA
7	NC	
8	Line Video Input	1Vp-p
9		DC 9VA
10	Tuner Video Input	1Vp-p
11	NC	
12	Premiere Video Input	1Vp-p
13	OSD Video Input	1Vp-p
14	Line Video Output	2Vp-p (75 \(\mathcal{Q} \) mismatch)
15	Y/C Video Input	1Vр-р
16	VPS/PDC Video Output	1Vp-p
17	Premiere Video Output	2Vp-p (75 \(\mathcal{Q} \) mismatch)
18	GND	
19	Premiere Control DATA	·
20	GND	
21	Premiere Audio Output	0dBm
22	Audio Output	-2dBm
23	Line Audio Output	0dBm
24	Audio Input	-2dBm

* VPS/PDC IC ICA01 (SDA5649)

Pin	Pin Function	Voltage
1	GND	
2	Serial Clock	
3	Serial DATA	
4	GND	
5	NC	
6	NC	
7	NC	
8	GND	
9,10, 11		DC 2.5V ———— GND ————
12	Current Reference	DC 1.5V
13	VPS/PDC Video Input	1Vp-p
14		DC 5VA

VPS/PDC TR Voltage Sheet

Port TR No.	Emitter	Collector	Base
Q601	9.17	12	10
Q604	12.45	12.44	11.68
Q605	0	0	4.6

Waveform



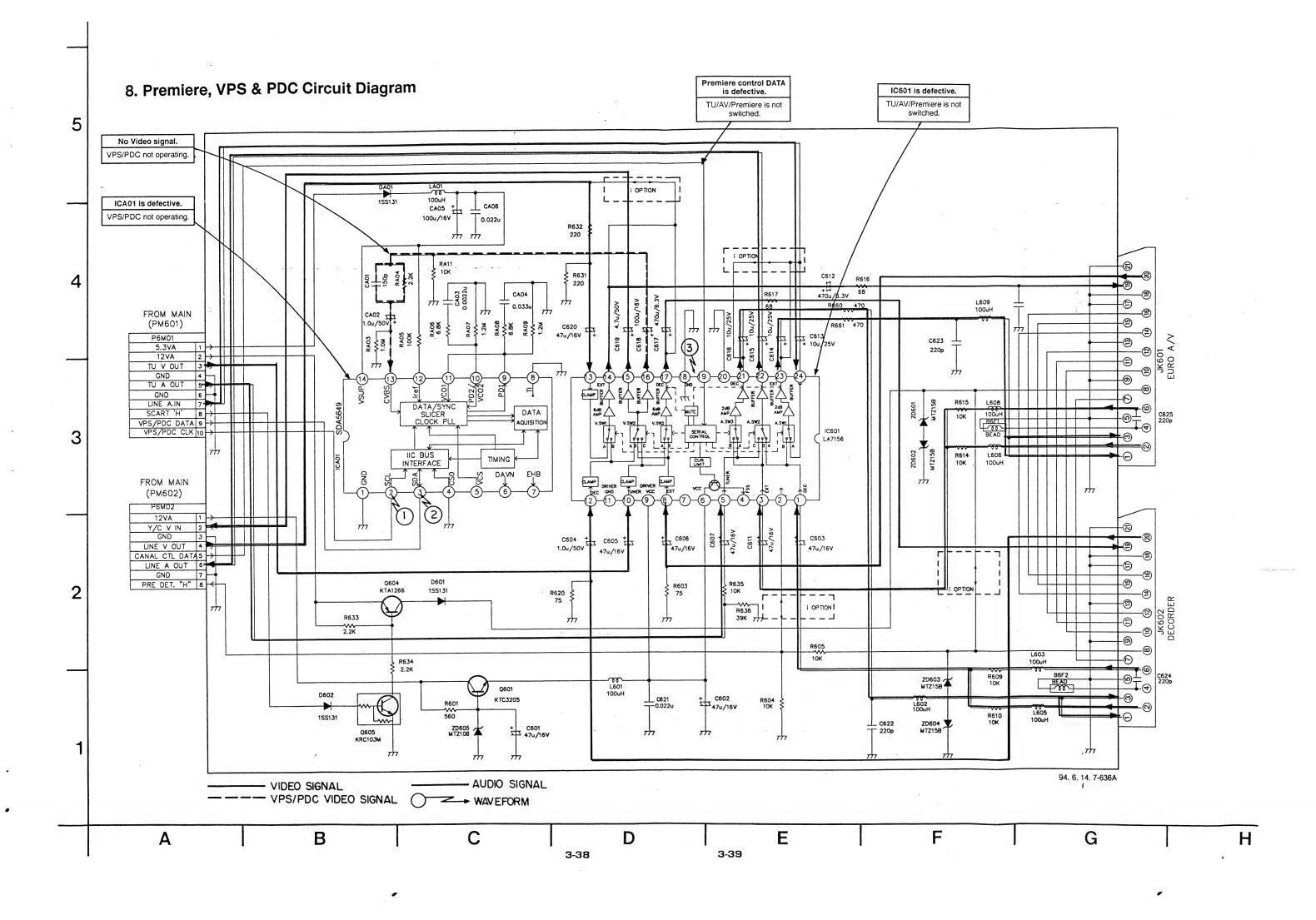
ICA01 Pin ② VPS/PDC Clock



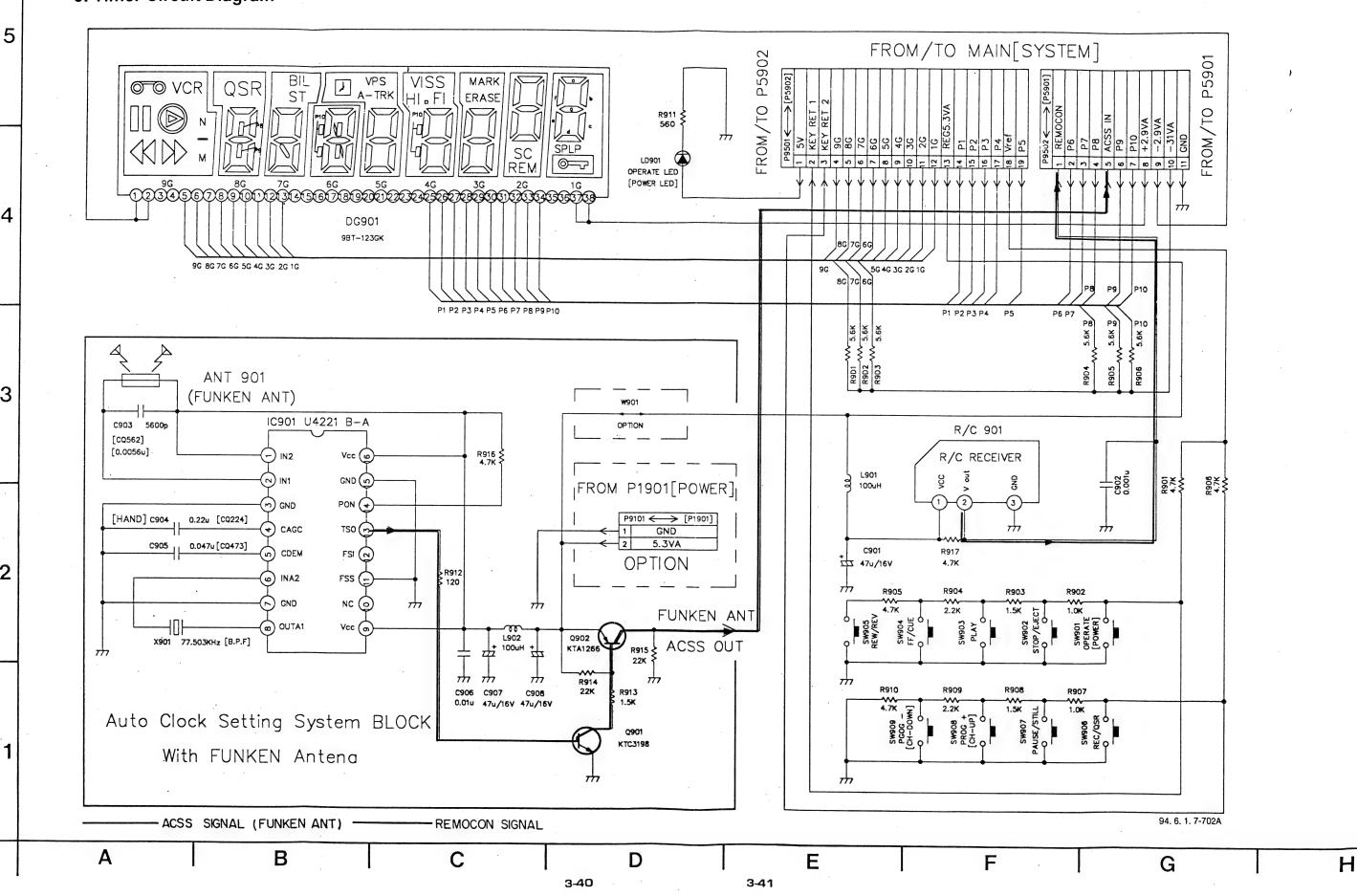
ICA01 Pin ③ VPS/PDC Data

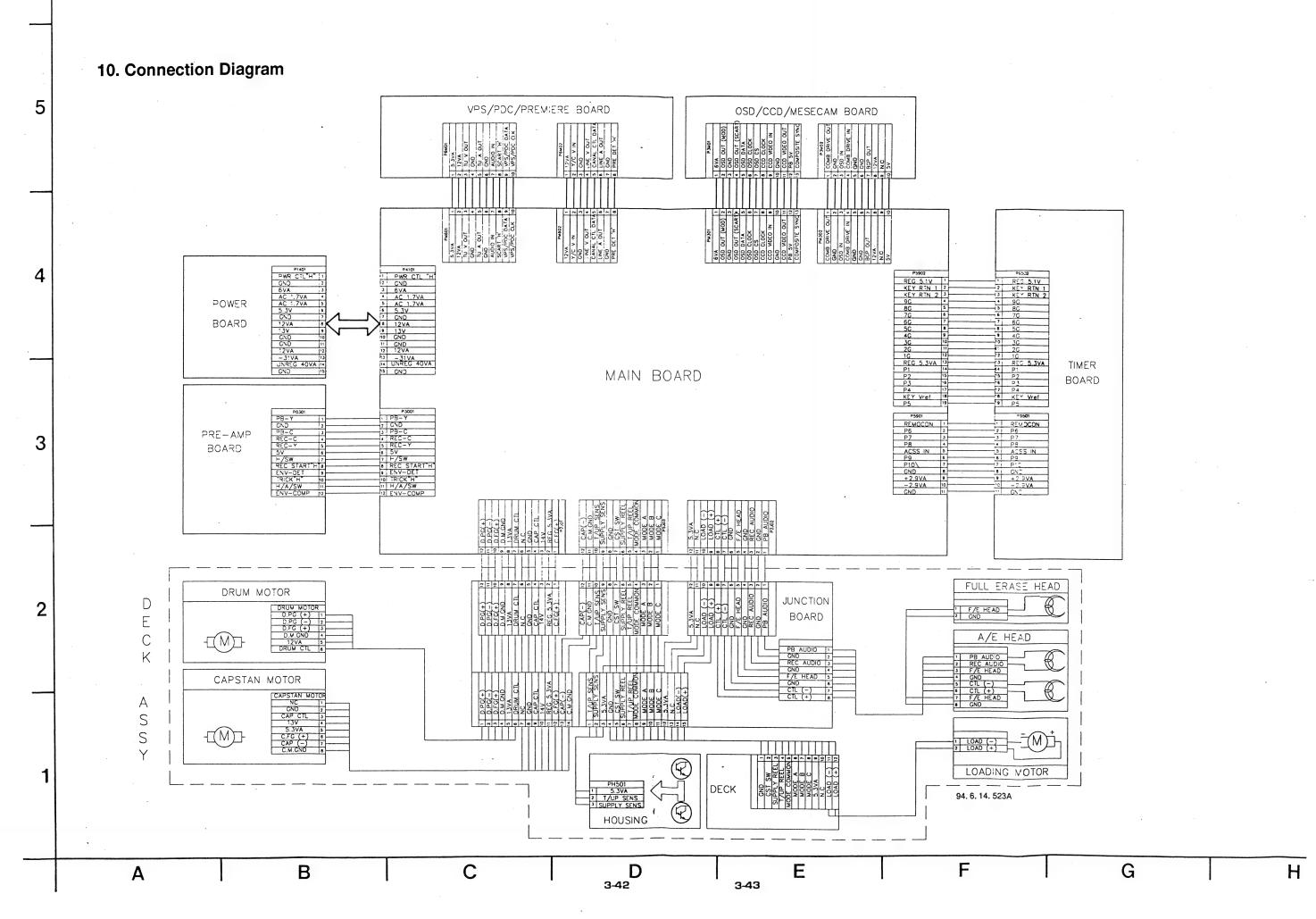


IC601 Pin
Premiere Control Data



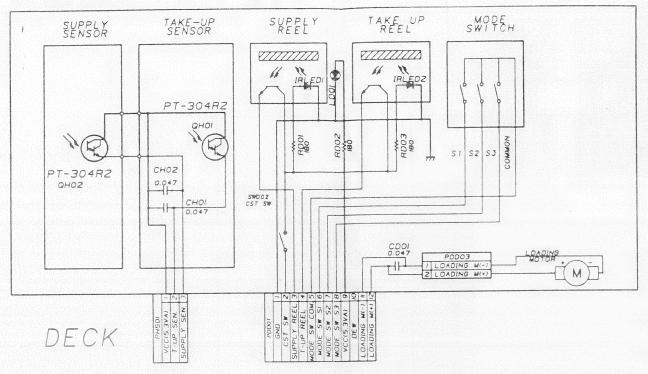
9. Timer Circuit Diagram



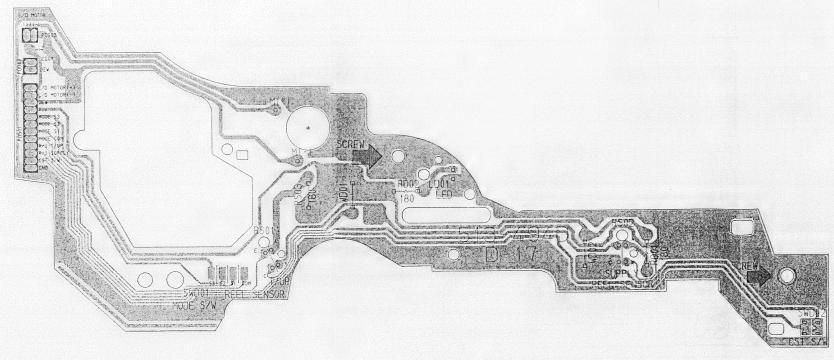


DECK JUNCTION

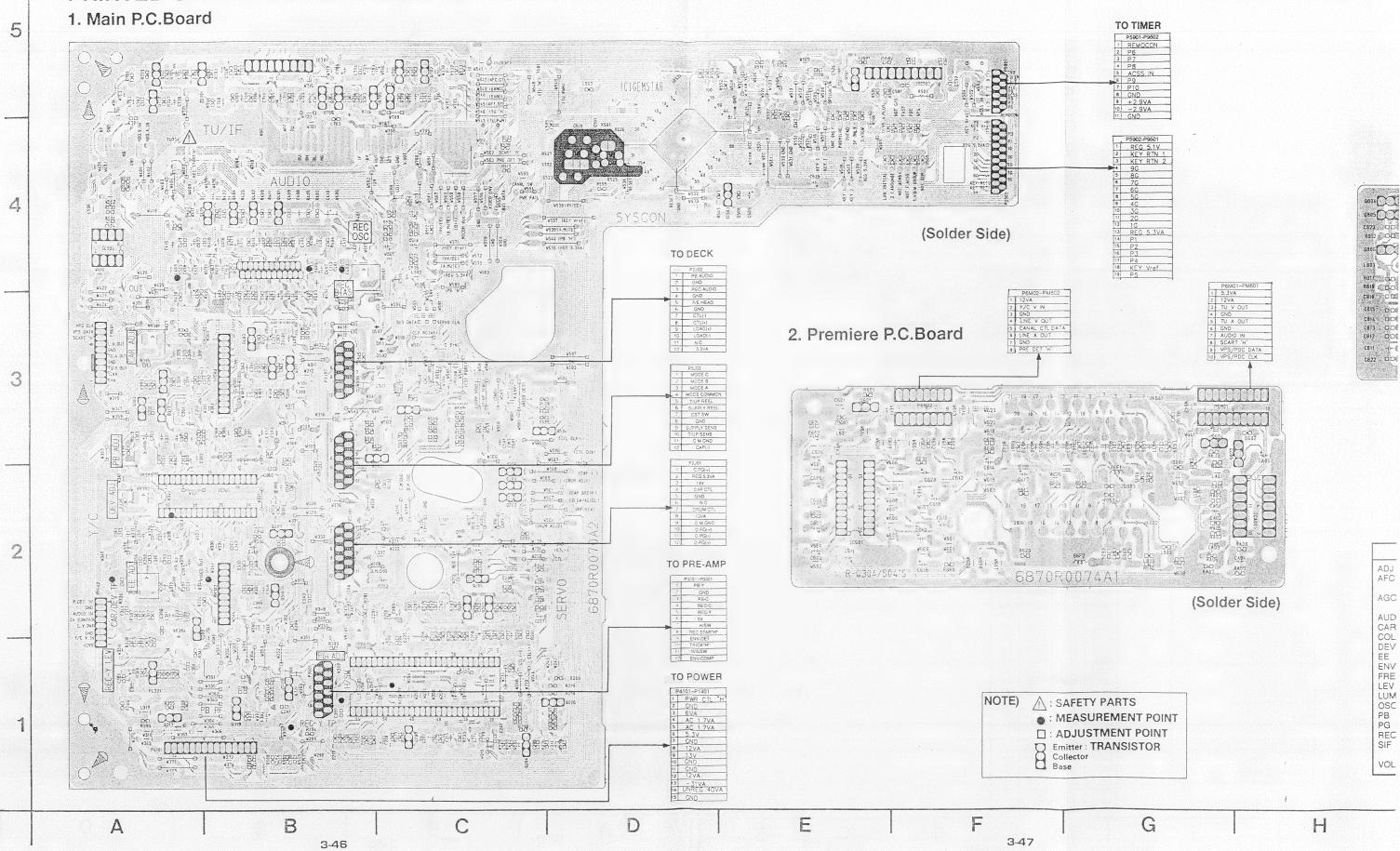
1. Deck Junction Circuit Diagram

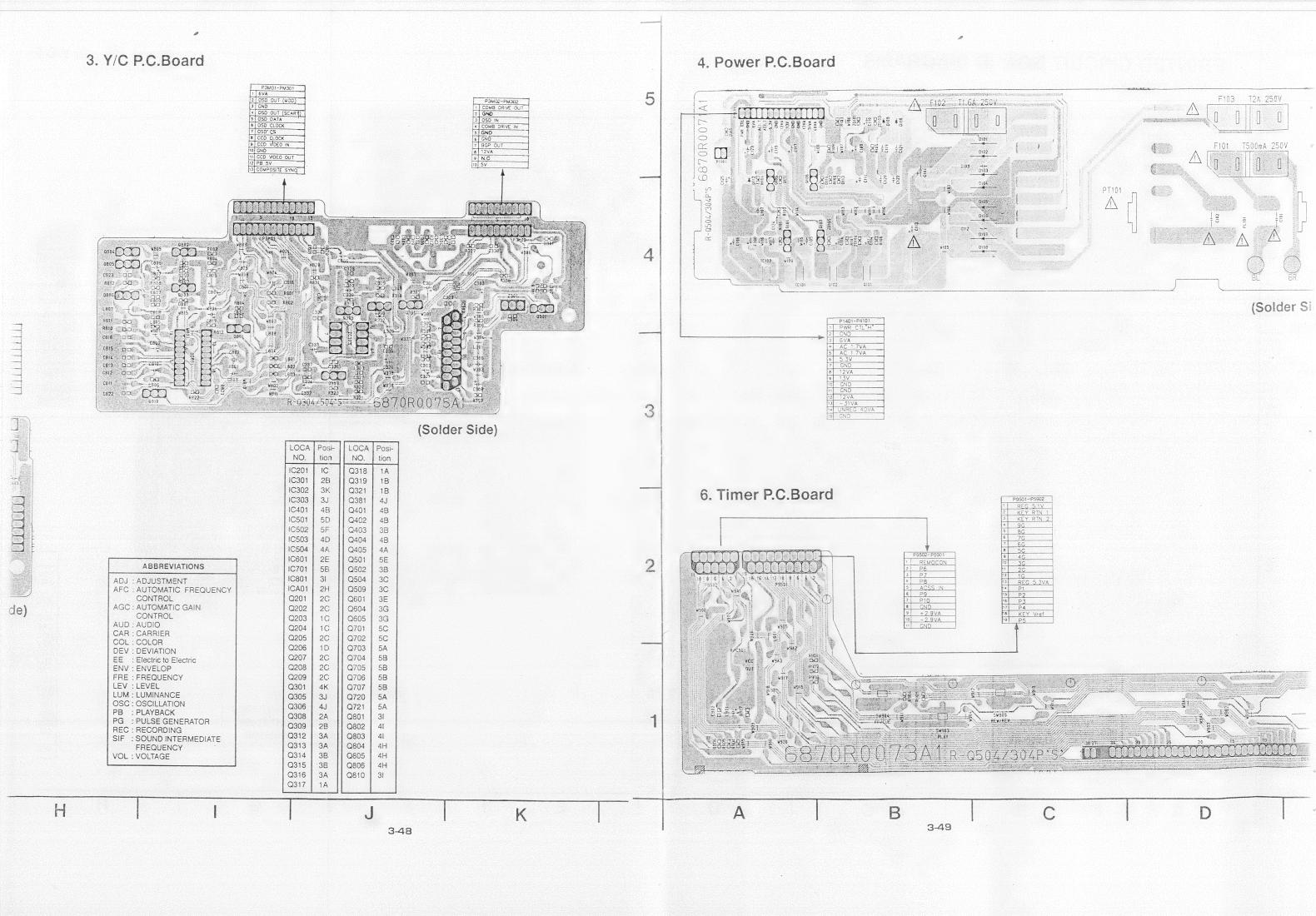


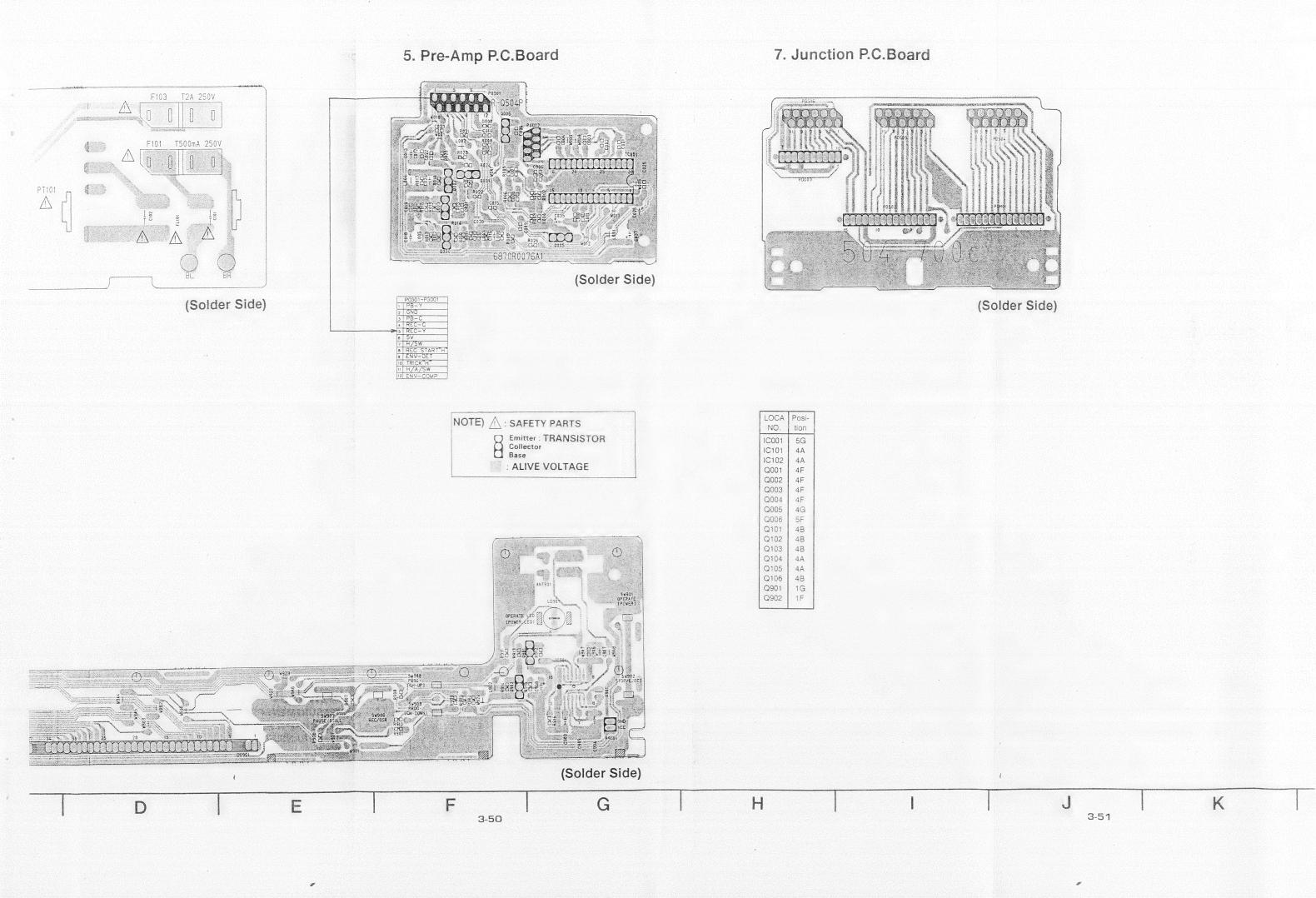
2. Deck Junction P.C.Board



(Solder Side)





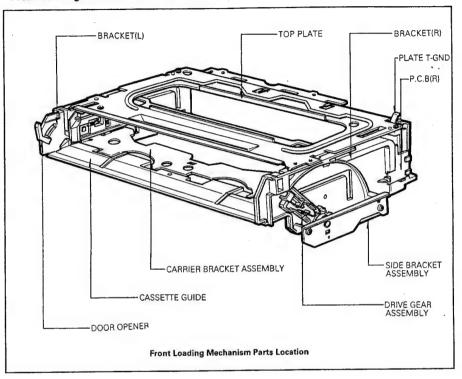


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FRONT LOADING MECHANISM DISASSEMBLY

• Front Loading Mechanism Parts Location



- Component list below will be discribed as if the top and bottom covers and the front panel have already been removed.
- 2. P.C.B Assembly
- 3. Top Plate
- 4. Carrier Bracket Assembly

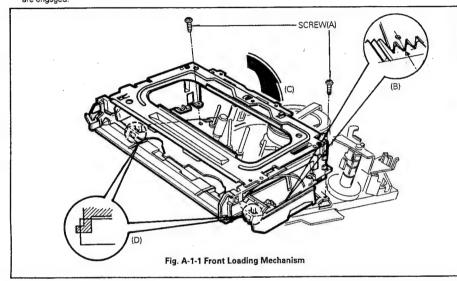
- 5. Cassette Guide
- 6. Side Bracket Assembly
- 7. Bracket(L), (R)
- 8. Door Opener
- 9. Drive Gear Assembly

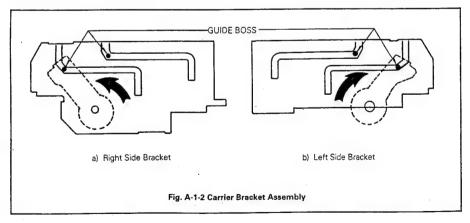
1. Front Loading Mechanism Assembly (Fig. A-1-1)

- 1) Remove the Top and Bottom Covers and the Front panel.
- 2) Unplug the connector.
- 3) Remove two screws(A).
- Lift up the Front Loading Mechanism in the direction of arrow(C).

* NOTE

- 1) When disassembling and reassembling
- Give special attention to removal, because two tabs(D) are engaged.
- ② Make sure that Bosses of Bracket(L),(R) are properly engaged in the holes of the chassis.
- ③ To reassemble Front Loading Mechanism, the Drive Gear Assembly should be turned in a counterclockwise as shown in Fig. A-1-2 so that the Rack Gear N.D of Front Loading Mechanism Assembly is meshed into Rack Gear F.L of Deck Mechanism Assembly correctly as shown in Fig. A-1-1.(B).





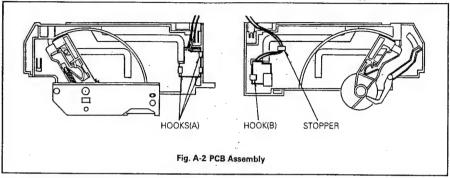
2. PCB(Printed Circuit Board) Assembly

2-1. P.C.B Assembly(R)(Fig. A-2)

- Remove the PCB Assembly(R) by pushing three Hooks (A) outward.
- 2) Release the Lead wire from stoppers.

2-2. PCB Assembly(L).(Fig. A-2)

- Remove the PCB Assembly(L) by pushing the Hock(B) outward
- 2) Release the Lead Wire from stoppers.

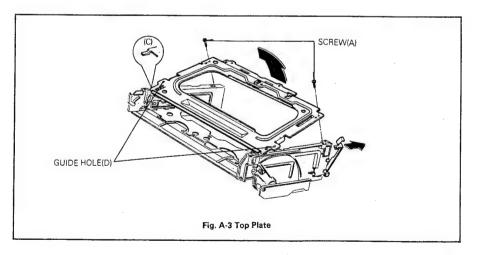


3. Top Plate(Fig. A-3)

- 1) Remove two screws(A).
- Push the upper part of Top plate Ground and then lift up the Top Plate.

* NOTE

- When reassembling, be certain that the tabs(C) of Top Plate is in both Bracket(L),(R).
- ① Then align the guide holes(D) of Top Plate with Bosses of side Bracket(L),(R).



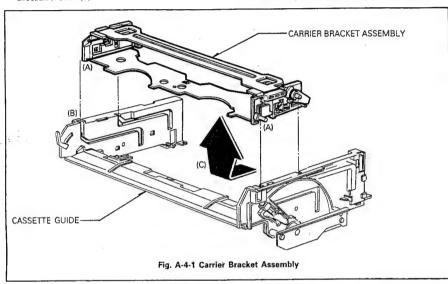
4. Carrier Bracket Assembly

4-1. Carrier Bracket Assembly(Fig. A-4-1)

 Remove the Carrier Bracket Assembly by moving it in the direction of arrow(C).

* NOTE

 When reassembling, be sure that parts(A) of Carrier Bracket Assembly are seated in parts(B) of Bracket(L),(R).



4-2. Cassette Opener(Fig. A-4-2)

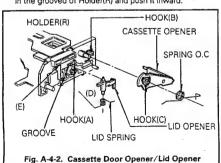
- Release the spring O.C from the Hook(A) and then release it from Hook(C) of cassette opener.
- Remove the cassette opener by releasing the Hook(B) from the Holder(R).

4-3. Lid Opener(Fig. A-4-2)

1) Remove the lid opener by pushing it outward.

* NOTE

 When reassembling, seat the upper part of the lid opener in the grooved of Holder(R) and push it inward.

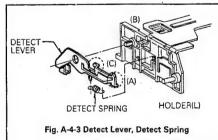


4-4. Detect Lever and Detect Spring

- 1) Remove the spring detect.
- Lower the side(A) of Detect Lever and then remove the Detect Lever by pushing it outward.

* NOTE

 When reassembling, make sure that the part(C) of Detect Lever set in the part(B) of Holder(R).

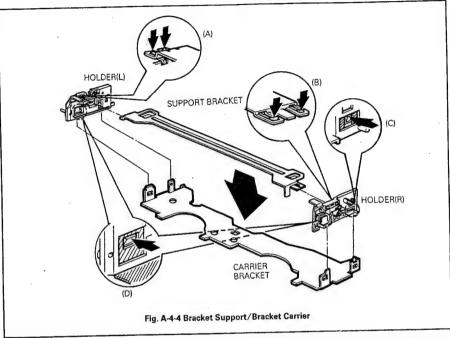


4-5, Bracket Support (Fig. A-4-4)

1) Take the Support Bracket out by releasing hooks(A),(B).

* NOTE

1) When disassembling and reassembling, be careful because heavy force can damage the hooks.



4-6. Carrier Bracket Assembly(Fig. A-4-4)

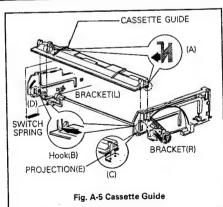
1) Remove the Carrier Bracket by releasing hooks(C),(D).

5. Cassette Guide(Fig. A-5)

- Remove the Switch Spring with the Front Loading Mechanism Assembly turned over.
- 2) Push two hooks(B) outward.
- Remove the Cassette Guide by pushing two hooks(A). outward(if one is removed, the other will be easy to remove)

* NOTE

- 1) When reassembling
- Seat projections(E) of Cassette Guide in holes of Bracket Assembly(L),(R) and then engage the Hook(A).
- ② After finishing previous step, fix the Cassette Guide to the Bracket Assembly(L),(R) by pushing two hooks(B) inward.

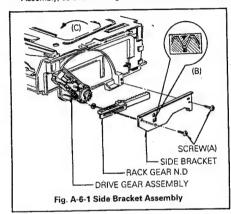


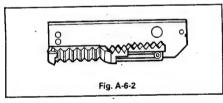
6. Side Bracket Assembly(Fig. A-6-1)

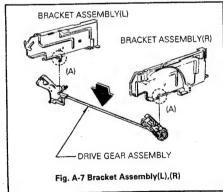
 Remove two screws(A) and then remove the Side Bracket Assembly and the Rack Gear N.D.

* NOTE

- 1) When reassembling
- ① Turn the Drive Gear Assembly in the direction of arrow
- ② Reassemble the Rack Gear N.D. to the Side Bracket Assembly, as shown in Fig. A-6-2, and then reassemble







it to the Bracket Assembly(L). This time the Assembling Figure should be the same as(B) at the rectangular hole of Bracket Side.

7. Bracket Assembly(L),(R)(Fig. A-7)

 Seperate the Bracket Assembly(L),(R) from the Gear Assembly Drive.

* NOTE

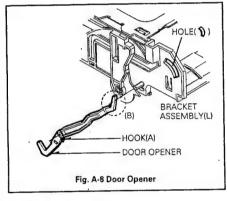
When reassembling, seat the shaft in the part(A) of Bracket Assembly(L),(R).

8. Door Opener(Fig. A-8)

1) Remove the Door Opener by pushing Hook(A) outward.

NOT

1) When reassembling, seat the part(B) of Door Opener in the hole(5) of Bracket(L).



9. Drive Gear Assembly

9-1. Drive Gear Assembly(Fig. A-9-1)

 Remove the Drive Gear Assembly from the Bracket Assembly(L),(R).

9-2. Cushion Spring(Fig. A-9-1)

1) Remove the cushion spring from the Gear R.

9-3, Cap-D(Fig. A-9-1)

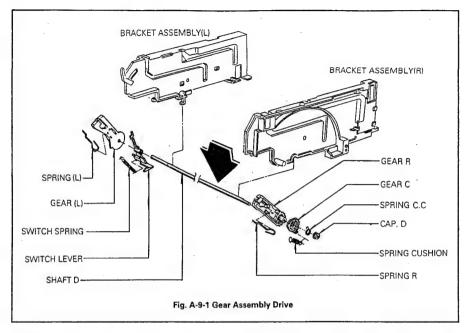
1) Remove the Cap-D by lifting it up.

9-4. Spring C.C(Fig. A-9-1)

1) Remove the Spring C.C from the Gear R.

9-5. Gear C(Fig. A-9-1)

 Remove the Gear C by lifting up when the projection of Gear C is aligned with the hole of Gear R while rotating the Gear C in the counterclockwise direction.



* NOTE

 When reassembling, seat the projections of Gear R in the holes of Gear C when the projection of Gear R is aligned with the hole of Gear C, and then keep the Gear C turned in the clockwise direction.

9-6. Gear R(Fig. A-9-1)

1) Lift up the Gear R from the Shaft,

9-7. Spring R(Fig. A-9-2)

1) Remove the Spring R by releasing Hooks.

* NOTE

1) When reassembling, be certain Spring R in the part(A) of Gear R.

9-8. Gear L.(Fig. A-9-1)

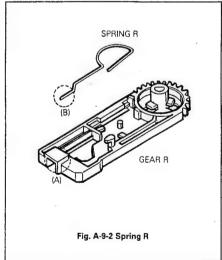
1) Remove the Gear L from the shaft.

9-9. Spring L (Fig. A-9-2)

- Remove the Spring L by releasing Hooks from the Gear L.
- * NOTE: (Refer to the Spring R Section)

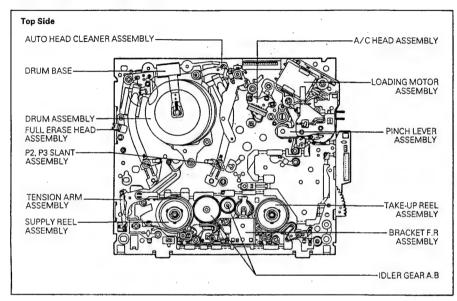
9-10. Switch Lever(Fig. A-9-1)

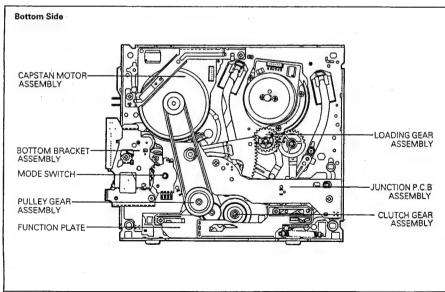
1) Remove the Switch Lever from the shaft,



DECK MECHANISM DISASSEMBLY

Deck Mechanism Parts Location



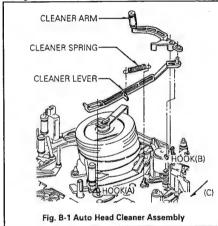


1. Auto Head Cleaner Assembly(Fig. B-1)

- 1) Remove the Cleaner Spring.
- Remove the Cleaner Arm by pushing Hook(B) inward and then remove Cleaner Lever by pushing it in the direction of arrow(C).

* NOTE

1) When reassembling, do not touch the Video Head Tip with fingers or tools.



2. Drum Assembly and Drum Base(Fig. B-2)

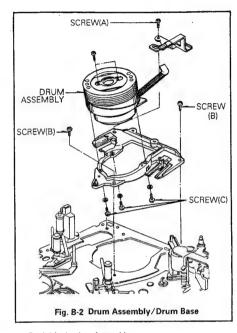
- 1) Remove the Auto Head Cleaner Assembly.
- Unplug the connector with the Deck Mechanism Assembly turned over.
- 3) Loosen the screw(A) and then lift up the Drum Brush.
- Remove two screws(B) and then lift up the Drum Assembly and Drum Base from the Deck Mechanism Assembly.
- Separate the Drum Assembly from the Drum Base by Loosening three screws(C) on the back of Drum Base.

* NOTE

- 1) When disassembling and reassembling
- Do not touch the Video Head tip with fingers or tools. (Give special attention to disassembling and reassembling of Auto Head Cleaner Assembly)
- After reinstalling the Drum Brush, the Drum Brush should be aligned with the center of vertical axis of Drum Assembly.
- 3 After completing the reassembly, adjust the transportation system and the Servo P.G.

3. Upper and Lower Drum Assembly (Fig. B-3)

1) Remove the Drum Assembly and Drum Base from the

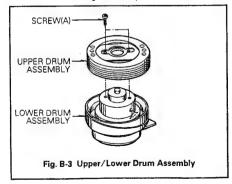


Deck Mechanism Assembly.

- 2) Separate the Drum Assembly from the Drum Base.
- 3) Remove two screws(A).
- Separate the upper Drum Assembly from the Lower Drum Assembly.

* NOTE

- 1) When disassembling and reassembling
- ① Do not touch the Video Head Tip with fingers or tools.
- Make sure that the color(white) marked on the P.C.B of the upper Drum should coincide with the color(Green) marked on the Flange Assembly.

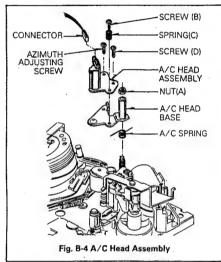


4. A/C(Audio/Control) Head Assembly (Fig.B-4)

- 1) Unplug the connector
- Remove the Nut(A), and then lift up the A/C Head Assembly.
- 3) Remove the Azimuth Adjusting Screw.
- Remove two screws(B),(D) and then separate the A/C
 Head Assembly from the Base A/C Head Assembly.

* NOTE

- 1) When disassembling
- Tirst of all, release the spring A/C.
- ② Do not touch the A/C Head Tip with fingers or tools.
- ③ After reinstalling the Audio Control Head Assembly, adjust the Tilt, Azimuth and Height of A/C Head.

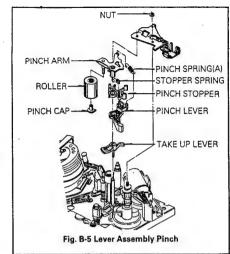


5. Pinch Lever Assembly(Fig. B-5)

- 1) Remove one Nut, and then remove the Dew Bracket.
- 2) Lift up Pinch Lever Assembly.
- 3) Remove the Pinch Spring, and remove the Pinch Lever.
- 4) Remove the Stopper Spring and remove the Pinch Stopper by lifting it up when the Hook of Pinch Stopper is aligned with the hole of Pinch Arm while rotating the Pinch Stopper in the counterclockwise direction.
- Remove the Pinch Cap, and then remove the Pinch Roller Assembly.

* NOTE

- 1) When disassembling and reassembling
- ① Be careful not to get any foreign substance on the Roller.
- When disassembling the Pinch Cap, be careful not to damage the Pinch Arm.

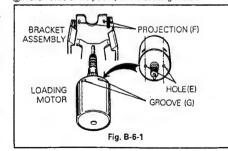


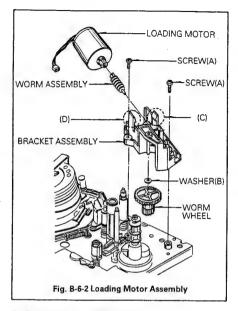
6. Loading Motor Assembly(Fig. B-6-1, B-6-2)

- 1) Remove the Dew Bracket.
- Unplug the connector from the Junction P.C.B Assembly
- 3) Remove two screws(A).
- 4) Remove the worm wheel by pushing it down.
- Remove the Loading Motor Assembly by pushing(C) and (D) outward.
- Remove the worm Gear Assembly from the Loading Motor Assembly by pushing it.

* NOTE

- 1) When reassembling
- ① Make sure that the worm assembly is seated in the axis of Loading Motor.
- Two grooves(G) of Loading Motor should be turned up and two projections(F) of Bracket Assembly should be seated in each at the two holes(E)(Fig. B-6-1).
- (3) Take notice of the polarity of the Loading Motor.





7. Take Up Lever(Fig. B-7)

- 1) Remove the Dew Bracket.
- 2) Remove the Pinch Lever Assembly
- Remove the Take-Up Lever by pushing the hook(A) outward.

* NOTE

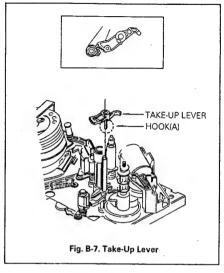
- 1) When disassembling and reassembling
- When disassembling the Take-Up Lever, be careful not to break the Hook(A).
- When reassemble the Take-Up Lever, align the appendant Gear of Lever Take-Up with the appendant Gear of Takeup Arm
- ③ Reassemble the Take-Up Lever completely by hooking (A).

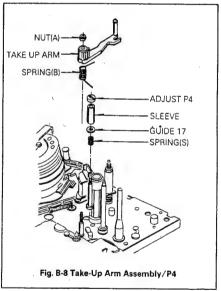
8. Take Up Arm Assembly(Fig. B-8)

- Remove the Dew Bracket, Pinch Gear, and the Take-Up Lever
- 2) Remove one Nut(A).
- 3) Remove the Take-Up Arm Assembly by lifting it up.
- 4) Remove the spring(B).

* NOTE

- 1) When reassembling
- Align the Gear of Take-Up Arm with the Gear of Take-Up Lever.





9. P4 Assembly(Fig. B-8)

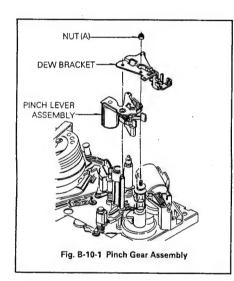
- 1) Remove the Adjust P4.
- 2) Remove the Sleeve.
- 3) Remove the Guide 17.
- 4) Remove the Spring

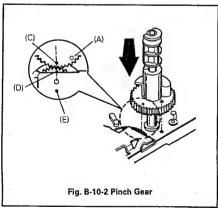
10. Pinch Gear

- 1) Remove one Nut(A) and then remove the Dew Bracket.
- 2) Remove the Pinch Lever Assembly by lifting it up.
- 3) Remove the Loading Motor Assembly.
- 4) Remove the Take Up Lever.
- 5) Remove the Pinch Gear Assembly.

* NOTE

1) When reassembling, align the hole(A) of Pinch Gear with the hole of chassis, and the hole(C) of Pinch Gear with the groove(D) of the P.C.Gear. Hole(E) of chassis should be aligned with the hole of P.C.Gear.





11. FE(Full Erase) Head Assembly(Fig. B-11)

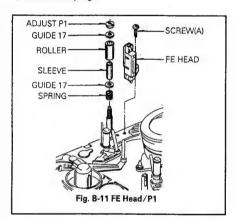
- 1) Unplug the connector.
- 2) Remove one screw(A), and then remove the FE Head.

* NOTE

- 1) When disassembling and reassembling
- (1) Do not touch the Video Head Tip with fingers or tools.

12. P1 Assembly(Fig. B-11)

- 1) Remove the Adjust P1.
- 2) Remove the Guide 17.
- 3) Remove the Roller.
- 4) Remove the Sleeve.
- 5) Remove the Guide 17.
- 6) Remove the Spring.

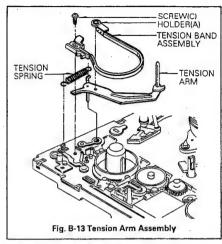


13. Tension Arm Assembly(Fig. B-13)

- 1) Remove one screw(C).
- 2) Remove the Tension Spring.
- Remove the Tension Arm Assembly by pushing hooks outward with the Deck Mechanism Assembly turned over.
- Remove the Tension Band Assembly from the Tension Arm by pushing Hooks of Holder(A).

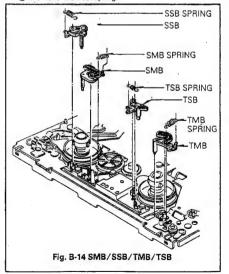
NOTE

 When disasembling and reassembling, give special attention to the disassembling and reassembling of Tension Arm Assembly, because the Tension Band is interposed between the Supply Reel and the Soft Brake.



14. Supply Soft/Supply Main/Take-Up Soft/Take-Up Main Brake Assembly

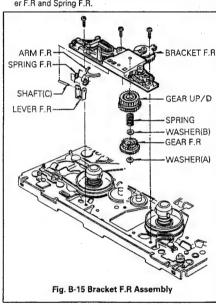
- 1) Supply Soft Brake(SSB)
- ① Remove the SSB Spring.
- ② Remove the SSB.
- 2) Supply Main Brake(SMB)
 - ① Remove the SMB Spring.
 - 2 Remove the SMB.
- 3) Take Up Soft Brake(TSB)
- Remove the TSB Spring.



- (2) Remove the TSB.
- 4) Take-Up Main Brake(TMB)
- ① Remove the TMB Spring.
- 2 Remove the TMB.

Bracket F/R(FF/Rewind) Assembly (Fig. B-15)

- 1) Remove the TMB.
- 2) Remove the Washer(A), and then remove the Gear F.R.
- Remove three screws, and then remove Bracket F/R Assembly from the Deck Mechanism Assembly.
- Remove the Washer(B), and spring Up/D, and then remove the Gear Up/D.
- Remove the shaft(C), and then remove the Arm F.R, Lever F.R and Spring F.R.

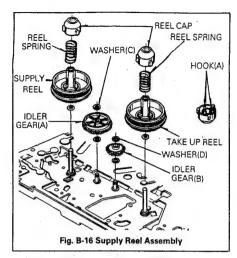


16. Supply Reel Assembly(Fig. B-16)

- 1) Remove the Tension Band Assembly.
- 2) Remove the Bracket F/R.
- Lift up the Supply Reel Assembly from the Deck Mechanism Assembly.
- Separate the Reel Cap from the Supply Reel by taking it out of Hooks(A).

* NOTE

- 1) When reassembling
- Make sure that the Supply and Take Up Reel are not exchanged.
- ② After reinstalling the Supply Reel Assembly, Adjust the Tension.

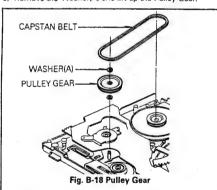


17. Idler Gear(A), (B)(Fig. B-16)

- After removing the Supply Reel, and supply Main Brake Assembly, remove the washer(C) and remove the Idler Gear(A).
- 2) Remove the Washer(D) and remove the Idler Gear(B).

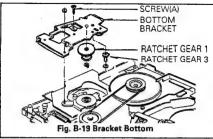
18. Pulley Gear Assembly(Fig. B-18)

- 1) Turn over the Deck Mechanism Assembly.
- 2) Remove the Capstan Belt.
- 3) Remove the Washer(A) and lift up the Pulley Gear.



19. Bracket Bottom Assembly(Fig. B-19)

- 1) Remove one screw(A).
- Remove one Hexagonal Nut, and then lift up the Bracket Bottom Assembly.
- 3) Remove one Washer, and lift up the Ratchet Gear 1.



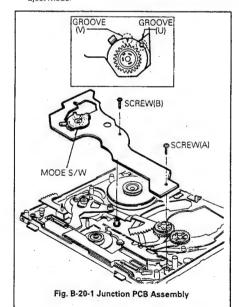
 Remove the washer, and then remove Ratchet Gear 3 from the Bottom Bracket.

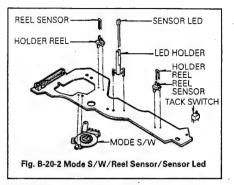
20. Junction PCB(Printed Circuit Board) Assembly (Fig. B-20-1)

- 1) Remove the Bottom Bracket Assembly.
- 2) Remove two screws(A) (B) and then remove the Junction P.C.B Assembly.
- Remove the Mode Switch from the Junction P.C.B Assembly.
- 4) Remove the Reel Sensors, Sensor LEDS and each holder from the Junction P.C.B(Fig. 8-20-2).

* NOTE

 When reassembling the Mode Switch, the groove(V) and (U) of Mode Switch should be at their original place in the Eject Mode.



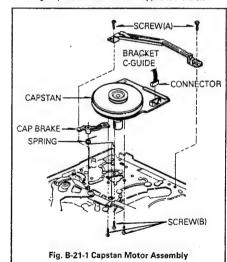


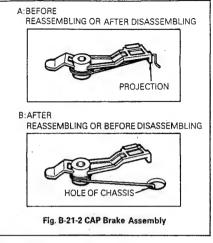
21. Capstan Motor and Brake Assembly (Fig. B-21-1)

- 1) Remove the Junction P.C.B Assembly
- Hook the end of Capstan Brake Spring to the projection of Capstan Brake and then remove the Capstan Brake Assembly by lifting it up(Fig. B-21-2).
- Remove two Screws(A), and then remove the Bracket C-Guide.
- 4) Remove the Connector.
- Remove three screws(B), and then remove the Capstan Motor Assembly from the Deck Mechanism Assembly.

* NOTE

 When disassembling and reassembling, hook end of the spring on the projection of Cap-Brake and remove it by lifting it up. Reassemble it in the opposite manner.



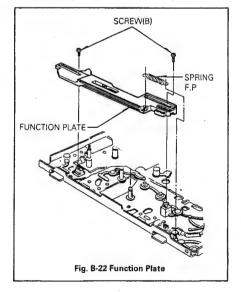


22. Function Plate(Fig. B-22)

- 1) Remove two screws(B) in Eject Mode.
- 2) Remove the Function Plate Spring.
- 3) Remove the Function Plate.

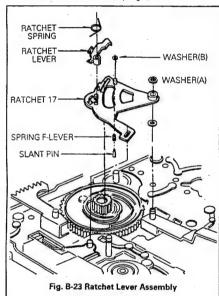
* NOTE

 When reassembling the groove of Lower part of Function Plate should be aligned with the shaft of Tension Lever Assembly(Fig. B-28).



23. Ratchet Lever Assembly(Fig. B-23)

- 1) Remove the Function Plate.
- 2) Remove the Junction P.C.B Assembly.
- Remove the Washer(A) and then remove the Ratchet Lever Assembly.
- 4) Remove the Ratchet Spring.
- Remove the Ratchet Lever from the Ratchet 17 by lifting it up when the hook of it is aligned with the hole of Ratchet 17 while rotating it counterclockwise direction.
- 6) Remove the Washer(B), and turn over the Ratchet 17 and then remove the Slant Pin, Spring F, Lever.

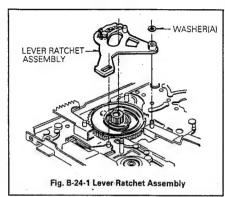


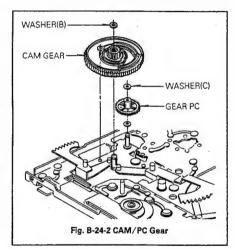
24. Cam Gear/Rack Gear T/Rack Gear FL(Fig. B-24-2)

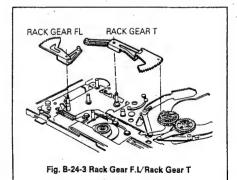
- Remove the washer(A) and remove the Ratchet Lever Assembly, (Fig. B-24-1).
- 2) Remove the washer(B), and then remove the Cam Gear (Fig. B-24-2).
- 3) Remove the Rack Gear F.L.(Fig. B-24-3)
- 4) Remove the Rack Gear T.(Fig. B-24-3)

* NOTE

- 1) When reassembling
- Align the Projection of Rack Gear T with the hole of Loading Gear.
- 2) Drive the Rack Gear F.L in the direction of arrow(D).
- 3 Hole of Cam should be aligned with the hole of chassis, and the groove(w) of Cam Gear should be aligned with the hole of PC Gear (Fig. 8-25)







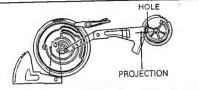


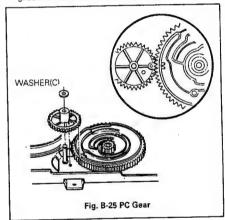
Fig. B-24-4 Rack Gear F.L/Rack Gear T/CAM Gear

25. PC Gear(Fig. B-25)

- 1) Remove the washer(C).
- 2) Remove the P.C Gear by lifting it up.

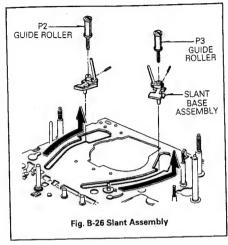
* NOTE

- 1) When reassembling
- The Groove of PC Gear should be aligned with the groove(V) of Cam Gear, and another hole of it should be aligned with the hole of chassis (Fig. B-25).



26. P2 and P3 Slant Assembly(Fig. B-26)

- After finishing the disassembly of Drum Assembly, remove the P2 and P3 Slant Assembly by turning the Loading Gear(R) in the clockwise direction.(Loading direction)
- 2) Loosen the set screws.
- 3) Remove the Roller Guide from the Slant Base.



* NOTE

- 1) When disassembling and reassembling
- 1) Use a Hexagonal wrehch to remove set screw.
- Take notice that the P2 and P3 Slant Assembly should not be changed from their original place.

27. Loading Gear Assembly(L),(R) (Fig. B-27)

- 1) Remove the Cam Gear, Rack-T.
- 2) Remove the P2 and P3 Slant Assembly by turning the Loading Gear(L),(R) in the Loading direction
- Lift up the Loading Gear Assembly(L),(R) from the Deck Mechanism Assembly.
- 4) Remove the Spring Load(L),(R).
- 5) Separate the Loading Gear(L), (R) from Lever Load(L), (R).

* NOTE

- 1) When reassembling
- Make sure that the Loading Gear(L) and (R) should not be changed from their original place.
- ② Align the groove of Loading Gear(L),(O) with the groove of Gear(R),(O).

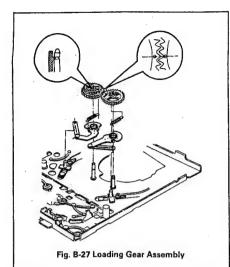


Fig. B-28 Tension Lever Assembly

28. Tension Lever Assembly(Fig. B-28)

- 1) Remove the Function Plate.
- Remove the Tension Lever Assembly by pushing hooks inward.

* NOTE

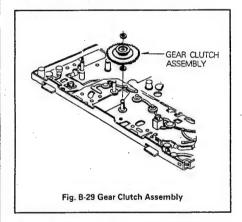
- 1) When reassembling
- Set the part(A) of Tension Lever Assembly in the groove of Lower part of Function Plate.
- After reinstalling the Tension Lever Assembly, adjust the Tension Post and the Tension with a Tension Cassette.

29. Clutch Gear Assembly(Fig. B-29)

- 1) Remove the Pulley Gear.
- 2) Remove the Plate Function.
- Remove the washer(A), and then remove the Clutch Gear Assembly.

* NOTE

- 1) When reassembling
- ① Do not disassemble the Clutch Gear Assembly any futher, because Torque adjustment is not adjustible.



30. Take Up Reel Assembly(Fig. B-16)

- 1) Remove the TMB(Fig. B-14)
- Lift up the Take-up Reel Assembly from the Deck Mechanism Assembly.
- Separate the Reel Cap and Spring from the Take-Up Reel by releasing Hooks(S).

MECHANISM ADJUSTMENTS

Tools and Fixtures for Deck

Back tension meter Parts No ; D00-D006	2. NTSC alignment tape Parts No NTSC ; DTN-0001 PAL ; DTN-0002	3. Master plane Parts No ; RJ10028
4. Torque gauge Parts No ; D00-D002	5. Torque gauge adaptor Parts No ; D09-R001	6. Reel table height fixture Parts No ; RJ10027
7. Post height adjusting driver Parts No ; DTL-0005	8. M3 Nut driver Parts No ; DTL-0006	

1. Mechanism State Switch(Mode Switch) Check

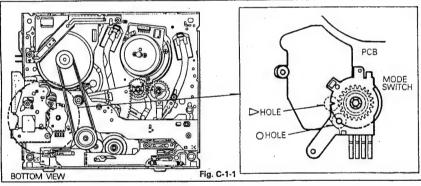
Purpose:To detect accurately the mechanism state and prevent the mechanism from malfunction.

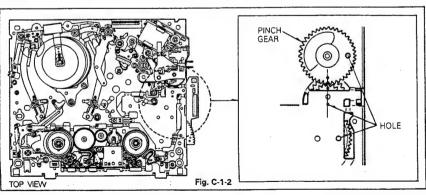
Test Equipment/Fixture	VCR State	Check Point
Blank tape	● Eject Mode (with cassette ejected)	 Mechanism state switch (Mode Switch and Cam)

Check Procedure

- 1) Turn the VCR on and eject the tape by pressing eject
- 2) Remove the Cabinet Top and Main P.C.Board, and then turn the Cam so as to align the hole of chassis with the hole of Cam and Pinch Gear, and Holes of Pinch Gear and P.C Gear with each other.
- 3) Remove the Bottom Cover and then check that the grooves(V) and (O) of Mode S/W are at their original
- 4) If the above alignment is not obtained, adjust as
 - (1) Remove the Bracket Assembly Bottom and the Capstan Belt in the state of power off.
- (2) Remove the P.C.B Assembly, place the grooves (V) and (O) of mode switch at their original place, and then reassemble the P.C.B Assembly.
- (3) Turn the power on and perform the various operations to check that the loading and the unloading are correct.

Check Diagram





2. Preparation for Adjustment(To set VCR to the loading state without inserting a cassette)

- 1) Unplug the power cord from the AC outlet.
- 2) Remove the Cabinet Top and Front Loading mechanism.
- 3) Plug the power cord into the AC outlet.
- 4) Turn the VCR on and push the tact switch in the PCB Assembly.

The VCR can accept input of each mode in this case. However the rewind and review operation cannot be performed for more than a few seconds because the take-up reel table is in the stop state and reel pulses cannot be detected.

When the Tension Arm and Tension Band are removed, adjust the tension post position and tension after reinstall-

ing them.

(NOTE)

Always return the VCR to the Front Loading Mechanism Assembling State in the following order after the above operations have been performed.

- 1) Press the Eject button after turning the power on.
- 2) Wait for about 10 seconds until searching out the assembly position.
- 3) Assemble the Front Loading Mechanism and connect the Front Loading Mechanism Connector.
- 4) Refer to the "Front Loading Mechanism Disassembly" which is described previously.

Test Equipment/Fixture	Preparation for adjustment	VCR State	Adjustment Points
Master Plane	Remove the Front Loading Mechanism		Washer under the Supply and Take-Up Reel Tables
Reel Table Height Fixture	Mount the Master Plane and place the Reel Table Height Fixture on it.		
Adjustment procedure		Adjustment Diagram	
 Check that the Reel Table of the Reel Table Height 	is between sections A and B Fixture.	MASTER P	LANÉ
2) If the table is not between sections A and B of the Fix-		/ REI	EL TABLE HEIGHT FIXTURE.
ture, replace the wash 0.5mm thick) in the Reel	ers(two types, 0.3mm and Table or adjust them.	A STATE OF THE PARTY OF THE PAR	REEL TABLE
CAU	TION		CHASSIS

SUPPLY AND TAKE-UP REEL TABLE

Fig. C-3

4. Tension Post Position and Tension Adjustment

Purpose: To make the tension of tape constant so that the contact between the video heads and tape is stabilized.

Test Equipment/Fixture	VCR State	Adjustment Point
Tension Meter	Play without cassette and with a	Holder Band(A)
(Tension adjustment)	Tension Meter	

Adjustment Procedures

(Position Adjustment)

- Perform loading without inserting a tape and loosen the screw that attaches the Band Holder(B) to the D-Deck Mechanism Assembly.
- Insert the (—)type driver between the Band Holder(B) and the "V" groove of the chassis.
- Move the Band Holder(B) right and left and align the center of tension post with the center of P1.
- Tighten the screw that attachs the Band Holder(B) to Deck Mechanism Assembly.

(Tension Adjustment)

- Play the Tension Meter and read the Tension Meter:35g·cm±2.5g·cm(reference value).
- 2) If the result is abnormal.
 - over the standard:loosen the screw, move the Band Holder(B) right a little and then tighten the screw and make sure that this adjustment is correct.

(2) below the standard:loosen the screw, move the Band Holder(B) left a little and then tighten the screw and make sure that this adjustment is correct.

CAUTION

The range of movement of Band Holder(B) should be within ± 1.5 mm while being adjusted.

If the range is over, you should recheck the Reel Brake, Tension Arm and Spring.

ALIGN THE CENTER OF P1 AND TENSION POST Fig. C-4-1 Fig. C-4-2

5. Checking Torque

Purpose: It is necessary to check the tension, torque and compression force at the tape take-up section and moving section to make the tape run smoothly and satisfy the basic performance of the VCR. Check these if the tape does not run smoothly or the tape speed is abnormal.

Test Equipment/Fixture	VCR state
Torque Gauge Torque Gauge Adaptor	Set the VCR to each operation mode without inserting a cassette. (See '2 Preparation for Adjustment')

item	VCR Operation mode	Measurement Reel	Measurement Values
Main brake torque.	Eject	Supply and take-up reels	600g.cm or more
Slack removal torque	Unloading(power off)	Supply reel	110~200g·cm
Fast forward torque	Fast forward	Take-up reel	400g·cm or more
Rewind torque	Rewind	Supply reel	400g·cm or more
Play take-up torque	Play	Take-Up reel	90~130g·cm

Checking Method

The values are measured by using a torque gauge and torque gauge adaptor with the torque gauge fixed.

Note: This value is measured when the VCR is shifted in the unloading direction from the fast forward or rewind mode and quick braking is applied to both Reel Tables.

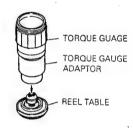


Fig. C-5

6. Guide Post Height Adjustment

Test Equipment/Fixture	VCR State	Adjustment Point
Master Plane Blank Tape Reel Table Height Jig Post Height Adjusting Driver M3 Nut Driver	Mount the Master Plane and place the Reel Table Height Jig on it.	Nuts on Impedance Roller Guide Post

- Set the clearance between the bottom of the P1 Roller Flange and under cut of Reel Table Height Fixture to 0~0.1mm(Fig. C-6-1).
- Set the clearance between the bottom of the Guide Post upper flange and top of the Reel Table Height Jig to 0~0.2mm(Fig. C-6-2).
- Load and run the Tape and check that the tape does not ride over the upper and lower flanges of the guide nost.
- If the tape rides over either flange, adjust the height of P1 Roller and Guide Post as follows(Fig. C-6-3).
 - If the tape rides over the upper flange, turn the nut counterclockwise.
 - If the tape rides over the lower flange, turn the nut clockwise.

Adjustment Diagrams

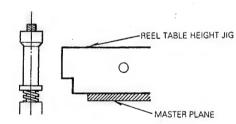
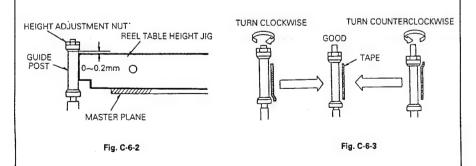


Fig. C-6-1



7. Guide Roller Height Adjustment

Purpose: To regulate the height of tape so that the bottom of tape runs along the tape guide line on the lower drum.

A. Coarse Adjustment

Test Equipment/Fixture	VCR State	Adjustment Point
Master Plane Reel Table Height Fixture Hexagonal Wrench Post Height Adjusting Driver	Mount the Master Plane and place the Reel Table Height Fixture on it.	Roller Guide Height Adjustment Screws on the Supply and Take-Up. Guide Rollers.

Adjustment Procedure

- 1) Align the bottom of the Guide Roller's upper flange and the top of the Reel Table Height Fixture.
- 2) Perform the precise adjustment next.
- When the Guide Roller is damaged release the Guide Roller retaining screw and then replace the Guide Roller

ROLLER GUIDE HEIGHT ADJUSTMENT SCREW UPPER FLANGE REEL TABLE HEIGHT FIXTURE ROLLER GUIDE RETAINING SCREW

Fig. C-7-1

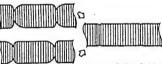
B. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	VCR State	Adjustment Point
Oscilloscope Post Height Adjusting Driver Alignment Tape Hexagonal wrench	CH-1:PB RF Envelope CH-2:SW 3-Hz Head Switching Output Point RF Envelope Output Point	● Play an alignment tape	Guide Roller Height Adjustment Screws.

Adjustment Procedure

- 1) Play an alignment tape after connecting the probe of the oscilloscope to RF Envelope Output Test Point and Head Switching Output Test Point.
- 2) Tracking control(in PB mode):Center position(When this adjustment is performed after the drum assembly has been replaced, set the tracking control so that the RF output is maximum.)
- 3) Height adjustment screw: Flatten the RF waveform.
- 4) Turn(Move) the tracking control(playback) clockwise and counterclockwise.(to the right and left)
- 5) Check that the drops of RF output are uniform at the start and end.

Waveform Diagrams



Trun the Roller Guide Height Adjustment Screw slightly to flatten the waveform.

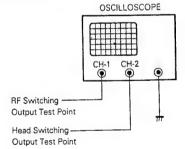
Fig. C-7-2



Turn(Move) the tracking control Tracking control at center to both directions.

Fig. C-7-3

Connection Diagram



8. Audio/Control(A/C) Head Adjustment

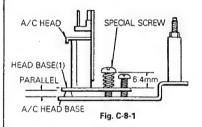
Purpose: To keep the contact between the tape and head so that the specificed track is recorded and played back.

A. Coarse Adjustment

Test Equipment/Fixture	VCR State	Adjustment Points
Master Plane Reel Table Height Fixture M3 Nut Driver	Mount the Mater Plane and place the Reel Table Height Fixture on it.	Special screw Cone Point Screw for tilt Azimuth Adjustment Screw
Blank tape	Run the blank tape	A/C Head Adjuster

Adjustment procedure/Adjustment Diagram

1) Tighten the spring section of the special screw so that it protrudes 6.4mm(approx.) over the top of Head Base(1).



2) Turn the Azimuth Adjustment Screw and Cone Point Screw so that the Head Base(1) and A/C Head Base are parallel.

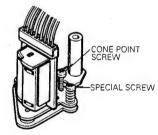
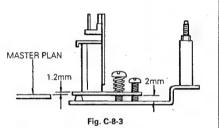
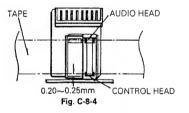


Fig. C-8-2

3) Turn the A/C Head Adjuster until the clearance between the Master Plane and Head Base(1) is approx 1.2mm.



- 4) Remove the adjustment fixture, load a blank tape and set the VCR to the play mode.
- 5) Check that there is no conspicuous curling and riding over around the A/C head. If there is conspicuous curling or riding over, readjust the Cone Point Screw, Azimuth Adjustment Screw and A/C Head Adjuster. When the bottom edge of tape is 0.20~0.25mm from the bottom edge of the control head's core, the height of A/C head is ideal.

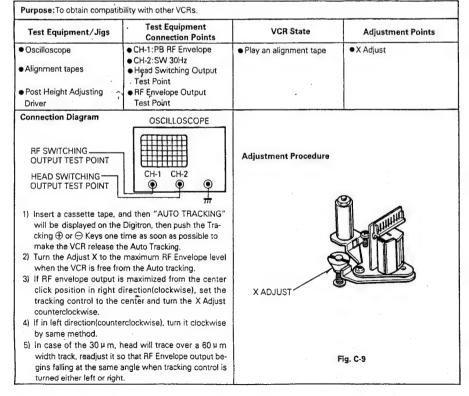


6) Perform the precise adjustment continuously.

B. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Point	VCR State	Adjustment Points
Oscilloscope Alignment tapes M3 Nut Driver	Audio output jack	Play an alignment tape 1KHz, 7KHz sections Azimuth Adjustment S A/C Head adjuster Cone point screw	
jack. 2) Adjust the Azimuth Adju adjuster and cone point s so that a Audio 1KHz ou nimum fluction) 3) Adjust the Azimuth Adju	screw slightly and alternately tput is maximum and flat.(mi-	A:Maximum	BB':Minimum

9. X-Value Adjustment



10. Adjustment after Replacing Drum Assembly(Video Heads)

Test Equipment/Fixture	Test Equipment Connection Points	VCR State	Adjustment Points
Oscilloscope Post Height Adjusting Driver Alignment tape Blank tape M3 Nut Driver	Checking the flatness CH-1:PB RF Envelope CH-2:SW 30Hz Head Switching Output Point RF Envelope Output Point	◆ Run the blank tape ◆ Play an alignment tape	Guide Rollers Precise Adjustment Switching point Tracking point X-Value
Connection Diagram	1	Waveform Diagram	
RF SWITCHING—OUTPUT TEST POINT HEAD SWITCHING—OUTPUT TEST POINT	OSCILLOSCOPE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Checking/Adjustment Procedure 1) Runthe blank tape, check and adjust whether the Roller Guide is curling or creasing tape around the Roller Guide.		V ₁ /V MAX V ₃ /V MAX RF ENVEL(
 Guide. 2) Check the RF envelope output flatness and adjust the Roller Guide Height while playing an alignment tape. 3) Adjust the head switching point. 4) Check that RF envelope output is maximum when the tracking is at the center click position. 5) Adjust the Tracking Preset and X-Value Adjust with X Adjust. 		F	ig. C-10

11. Maintenance/Inspection Procedure

(1) Required Maintenance

The recording density of a VCR is much higher than that of an audio tape recorder. VCR components must be very precise, at tolerances of 1/1000mm, to ensure compatibility with other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, are necessary.

(2) Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR, and the environment in which the VCR is used.

But, in general home use, a good picture will be maintained if the inspection and maintenance is made every 1,000hours. The table below shows the relation between time used and inspection period.

Table 1

hou	When inspection is necessary erage urs used	Abou yea		About 18		out 3 ars
C	One hour				/////	}
,			///	Z		
Т	hree hours	/////				

(3) Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.

Check with the customer to find out how often the unit is used, and then determine that the unit is ready for in spection and maintenance. Check the following parts.

Table 2

Phenomenon	Inspection
Poor S/N, no color	Dirt on video head or worn video head
Tape does not run or tape is slack	Dirt on pressure roller, belt or flywheel belt
Vertical jitter, horizontal jitter	Dirt on video head or in tape transport system
Color beats	Dirt on full-erase head
Low volume or sound distorted	Dirt on audio/control head
Fast forward or rewind is not done or rotation is slow	Dirt on belt

(4) Supplies Required for Inspection and Maintenance

- (1) Greases Kanto G-31(or equivalent)
- (2) Alcohol(or freon)
- (3) Cleaning Patches

5) Maintenance Procedure

5-1) Cleaning

(1) Cleaning video head

First use a cleaning tape. If dirt on head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with alcohol or freon to the point indicated. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.

(Do not move the cleaning patch vertically and make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)

Thoroughly dry the head. Then test tape-running. If alcohol or freon remains on the video head, the tape may be damaged when it comes into contact with the head surface.

(2) Cleaning the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with alcohol or freon.

Note:

- It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which move the tape.
- ② Make sure that during cleaning you do not touch the tape transport system with the tip of a screw driver and no force is applied to the system that would cause deforming.

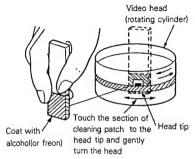


Fig. C-11-1

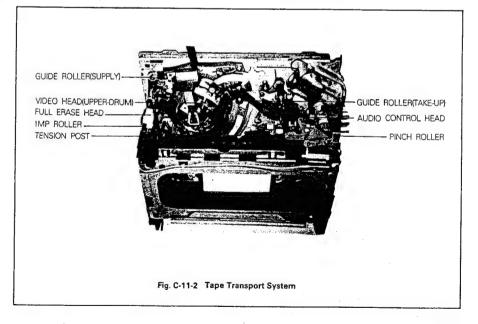
5-2) Greasing

(1) Greasing guidelines

Apply grease, with a cleaning patch. Do not use excess grease. It may come into contact with the tape transport of drive system. Wipe any excess and clean with cleaning patch wetted in alcohol or freon.

(2) Periodic greasing

Grease specified locations every 5,000hours.



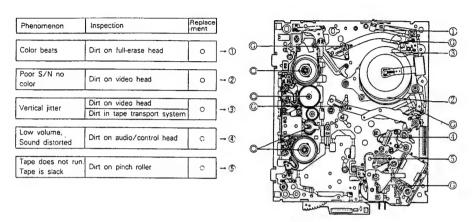


Fig. A-12 Top View of Mechanism

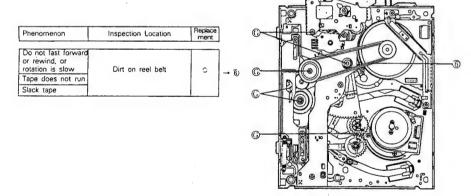


Fig. A-13 Bottom View of Mechanism

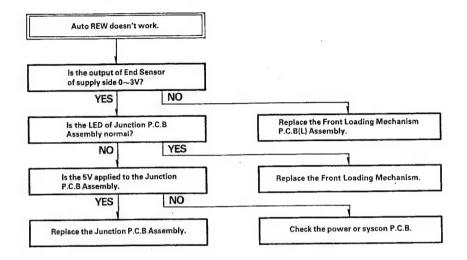
Note:If locations marked with O do not operate normally after cleaning, check for wear and replace.

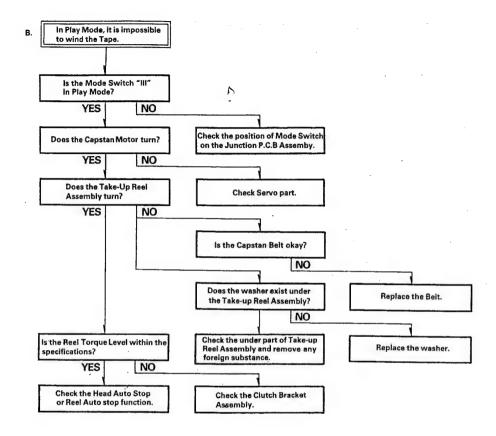
See the EXPLODED VIEWS at the end of this manual as well as the above illustrations for the sections to be lubricated and greased.

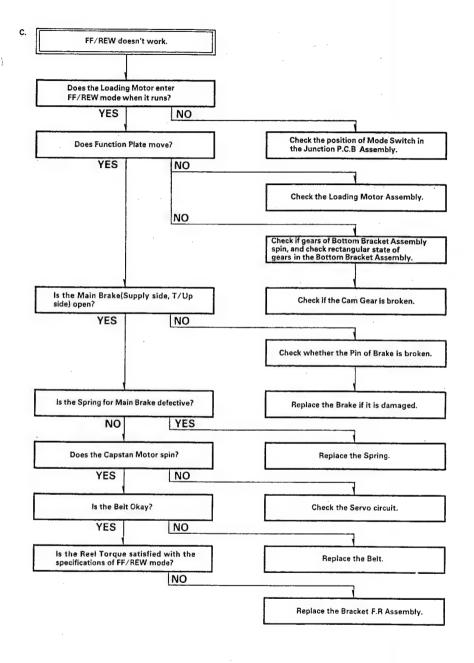
©:Grease

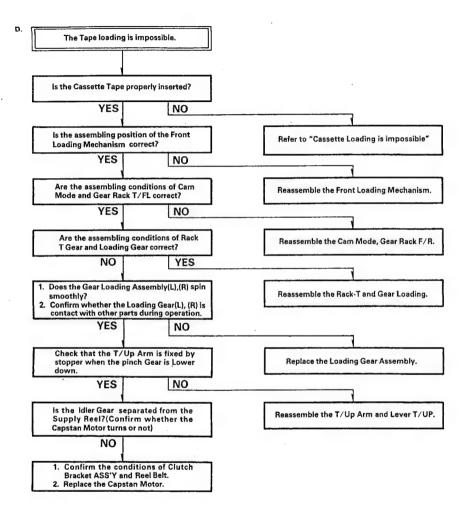
MECHANISM TROUBLESHOOTING GUIDE

1. Deck Mechanism



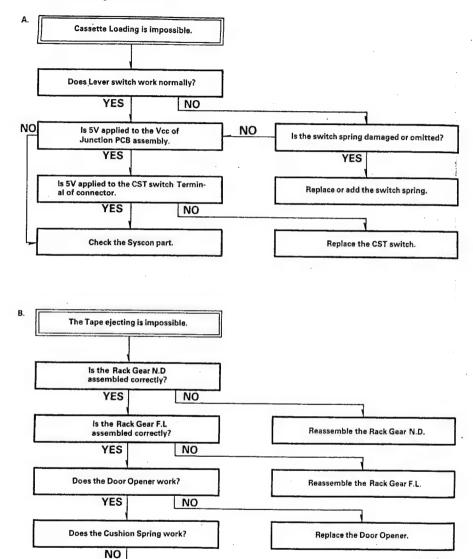


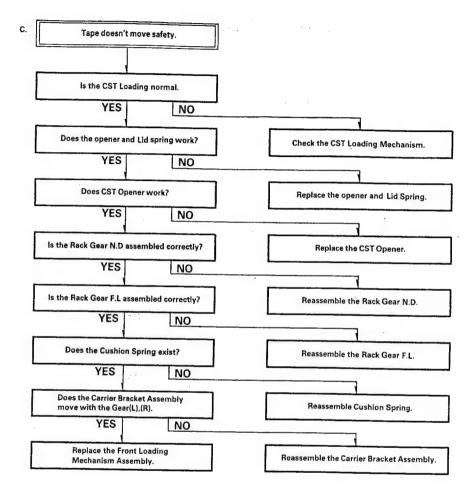




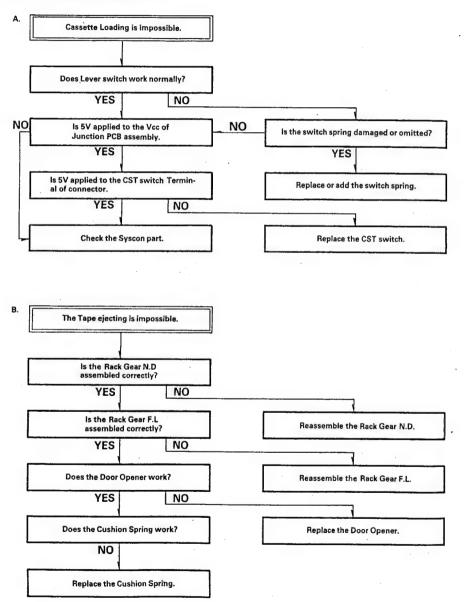
2. Front Loading Mechanism

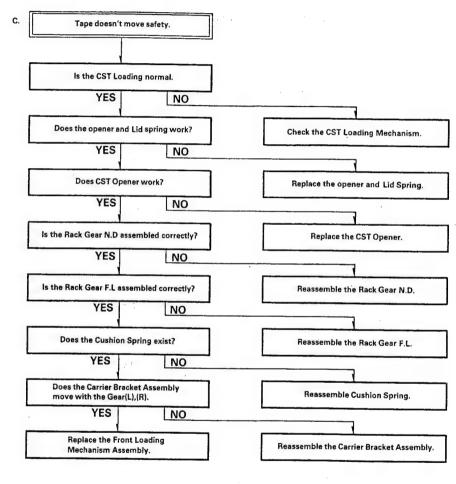
Replace the Cushion Spring.

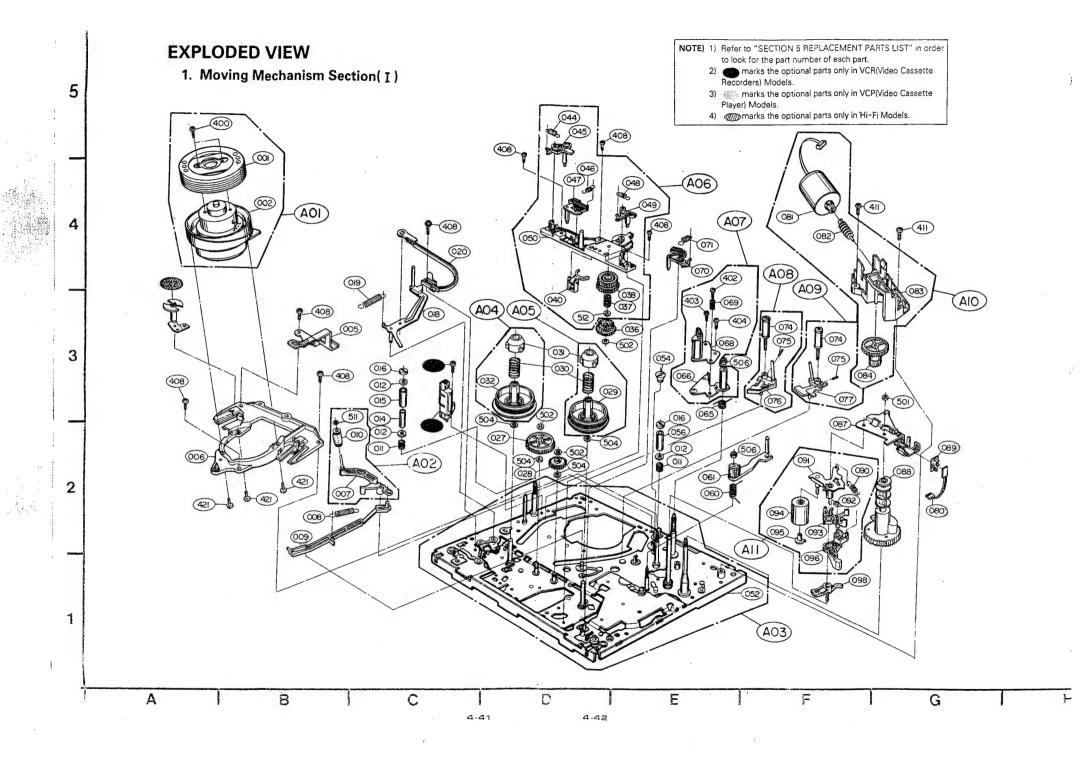


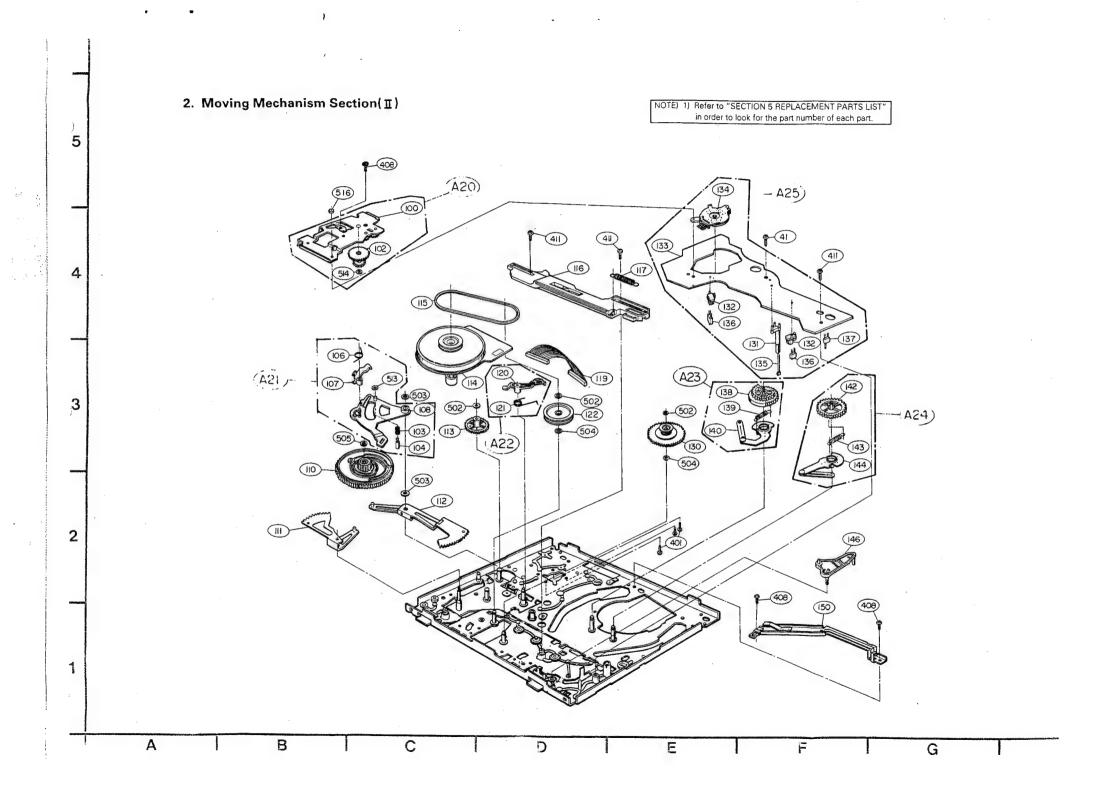


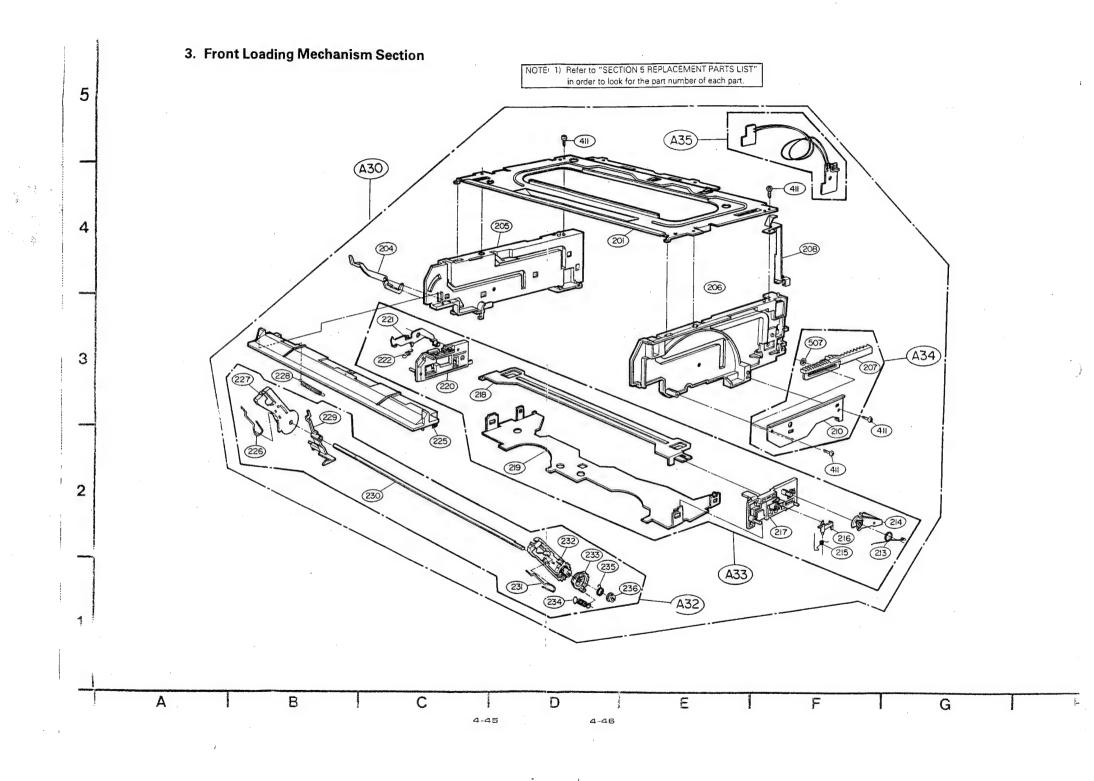
2. Front Loading Mechanism











SECTION 5 REPLACEMENT PARTS LIST

· Mechanical Section

RUN DATE : 94.06.27 NSP: Not Service Part

				NSF.	Not Service Part				
S AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS				
	ASSEMBLY PARTS SECTION								
\top	A00	412-126A	DECK	ASSY D-17 P (4HD VCR PAL)					
OR	,	412C126A	DECK	ASSY D-17 S (S/J)					
OR		412G126A	DECK	ASSY D-17(4HD)					
OR		412H126A	DECK	ASSY D-17(4HD)					
OR	1	412W126A	DECK	ASSY D-17 P (D/Y)					
On	A01	413-222D	DRUM	ASSY (D17-PAL:D4HD/S)	!				
OR		413F222D	DRUM	ASSY GSA (D17-P4)					
0	A02	386-296B	ARM	ASSY CL					
OR		311-005G	CHASSIS ASSY	D17	NSP				
	A03	311-005M	CHASSIS ASSY'	D17	NSP				
	A04	456-048A	BEEL	ASSY SUPPLY POM 7G					
	A05	456-045A	REEL	ASSY T/UP POM 7G					
	A06	321-397D	BRACKET	ASSY F/R					
	A07	225-228A	BASE	ASSY A/C					
OR		225-248A	BASE	ASSY,P2	1				
	80A	225-248B	BASE	ASSY P2 (W-W)	1				
OR		225-249A	BASE	ASSY,P3					
"	A09	225-249B	BASE	ASSY P3 (W-W)					
	A10	414-104A	MOTOR	ASSY LOAD					
	A11	333-209E	LEVER	ASSY PINCH					
	A20	321-401A	BRACKET	ASSY BOTTOM					
	A21	333-208A	LEVER	ASSY RAT					
	A22	338-078A	BRAKE	ASSY CAP					
	A23	386-218A	ARM	ASSY LOAD(R)					
	A24	386-219A	ARM	ASSY LOAD(L)					
	A25	511-997D	PWB ASSY	D-17,VCR					
OF		219-017F	HOUSING	ASSY (D17)					
"	A30	219-017L	HOUSING	ASSY (D17)					
	A32	435-257B	GEAR	ASSY DRIVE (HOOK ADDED)					
	A33	321-406A	BRACKET	ASSY CARRIER	1				
	A34	321-441A	BRACKET	ASSY SIDE	ł				
	A35	515-106B	PWB ASSY	SENSOR					
	.1		PARTS SEC	TION					
\vdash	004	412 16ED	DRUM	ASSY UPPER(D17-PAL:D4HD/S)					
	001	413-165D 413-220A	DRUM	ASSY LOWER (D17-4CH)					
	002	225-231B	BASE	ASSY D-BRUSH					
		225-231B 225-220A	BASE	DRUM	NSP				
OF	006	225-220A 225-220B	BASE	DRUM (W-W)	NSP				
OF	1	225-220B 225-220C	BASE	DRUM (Y-H)	NSP				
IΝ	007	386-297A	ARM	SUB ASSY CU	1101				
	007	442-460B	SPRING	CU					
	009	442-459A	SPRING	CL					
	010	386-295B	ARM	CL					
1 1	012	384-071A	GUIDE	17					
1 1	012	523-082B	HEAD	FE,HVFHF0010AK					
1 b	1	523-062B 523-824A	HEAD	F.E MH-131G (D-17)					
1 1	014	378-017A	SLEEVE	P1					
ш	1 017	7 570 6777	10000						

MODELQUISY 40 5-1

AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARK
	015	434-178A	ROLLER	P1	
OR	015	434-178B	ROLLER	P1	
Un		389-003B	ADJUST	P(4)	i
	016	386-205A	ARM	ASSY TENSION	
	018	442-331C	SPRING	TENSION	
	019	328-052B	BAND	ASSY TENSION	
1	020	334-066A	STOPPER	P1	
	021		GEAR	IDLE A POM 3G	
	027	435-243A 435-244A	GEAR	IDLE B POM 3G	
i	028		REEL	T17	NSP
	029	456-040A	SPRING	REEL	NSP
1	030	442-341A	CAP	REEL	NSP
1	031	276-068A		\$17	NSP
	032	456-039A	REEL	F/R POM 3G	
1	036	435-240A	GEAR	UP/D	NSP
	037	442-336A	SPRING	UP/D POM 3G	NSP
1	038	435-239A	GEAR	ASSY F/R	NSP
	040	333-201B	LEVER	SSB	NSP
1	044	442-338B	SPRING	S-SOFT	NSP
	045	338-081A	BRAKE	S-SOFT SMB	NSP
1	046	442-337A	SPRING	ASSY S-MAIN	NSP
1	047	338-080A	BRAKE		NSP
	048	442-339D	SPRING	TSB	NSP
1	049	338-083A	BRAKE	ASSY T-SOFT	NSP
	050	321-396A	BRACKET	SUB ASSY F/R	Nor
1	054	389-013A	ADJUST	X-ASSY	
1	056	378-018A	SLEEVE	P4	
1	060	442-343A	SPRING	T/UP	
1	061	386-387B	ARM	ASSY T/UP	
	065	442-332A	SPRING	A/C	Nen
	066	225-219A	BASE	SUB ASSY A/C	NSP
	068	523-089A	HEAD	SUB ASSY A/C	
1	069	442-362A	SPRING	AZIMUTH	1
	070	338-085A	BRAKE	ASSY T-MAIN	
	071	442-344A	SPRING	TMB	
	074	434-173A	ROLLER	ASSY GUIDE	1
	075	353-054B	SCREW	MINIATURE	
	076	225-226B	BASE	SUB ASSY SLALT (L,W-W)	
	077	225-225B	BASE	SUB ASSY SLALT (R,W-W)	
	081	414-105A	MOTOR	SUB ASSY,L	
	082	437-009A	WORM	ASSY	•
	083	321-410A	BRACKET	SUB ASSY L/M	1
	084	433-023A	WHEEL	WORM	
1	087	321-470A	BRACKET	ASSY DEW	
	088	435-448A	GEAR	PINCH (N)	
	090	442-347A	SPRING	PINCH	NSP
1	090	386-210A	ARM	ASSY PINCH	NSP
	091	442-346A	SPRING	STOPPER	NSP
	092	334-050C	STOPPER	PINCH	NSP
		434-181A	ROLLER	ASSY PINCH	
0				PINCH D14 X L18	
	094	434-181B	ROLLER	PINCH	. NSF
	095	276-089B	CAP	PINCH	NSF
	096	333-203A	LEVER	T-UP (N)	1
-	098	333-344A	LEVER	SUB ASSY B	NSF
ı	100	321-463A 435-249A	BRACKET GEAR	RAT1	NSF

;	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
1		103	442-356A	SPRING	F-LEVER	NSP
١		104	356-208A	PIN	F-LEVER	NSP
1	ı	106	442-345A	SPRING	RAT	NSP
1	- 1	107	333-202A	LEVER	RAT	NSP
١	- 1	1		LEVER	F17	NSP
1		108	333-207A	CAM	D17 POM 10G	
ı	- 1	110	374-005A		ASSY RACK F/L	
ŀ	- 1	111	435-318A	GEAR	ASSY RACK T	
1		112	435-291A	GEAR	PC POM 3G	
١		113	435-246A	GEAR		1
١		114	414-121B	MOTOR	CAPSTAN, GVC017S	
ı		115	452-047A	BELT	CENTER D71.9 X SQRT2.0	
I		116	256-734A	PLATE	F17	
ļ		117	442-342B	SPRING	FP	l
l		120	338-089A	BRAKE	SUB ASSY CAP	
ı	-	121	442-333A	SPRING	CAPSTAN	1
-		122	432-038A	PULLEY	GEAR POM 3G	
1		130	337-005A	CLUTCH	ASSY POM 7G FELT 20X1X1T 2EA	
		131	340-001A	HOLDER	LED (Q)	
		132	324-642A	HOLDER	R/S	
		133	513-494D	PWB	JUNCTION D-17 VCR	NSP
		134	556-133A	SWITCH	MODE	1
-	OR		556-133B	SWITCH	MODE, ALPS	
-	-	134			IR SENSOR GL451 (LONG) SHARP	
	OR	135	0DL451000AA	DIODE LED		
		135	0DL550000AB	DIODE LED	IR SENSOR EL-55L(LONG) KOC	i
		136	657-102K	SENSOR	SG-105(REEL) D-16 KOC	
		137	556-131A	SWITCH	ESE-105SV1	1
		138	435-234A	GEAR	LOAD(R)	
		139	442-330A	SPRING	LOADING	
		140	386-274A	ARM	SUB ASSY (R)	
		142	435-235A	GEAR	LOAD(L)	
		143	442-330B	SPRING	LOADING	l
		144	386-273A	ARM	SUB ASSY (L)	
		146	333-218A	LEVER	ASSY A-TEN	
		150	321-527A	BRACKET	ASSY C-GUIDE	
		201	256-934B	PLATE	TOP	
		204	465-026A	OPENER	DOOR	1
		205	321-517B	BRACKET	LEFT (D17)	
	ĺ	206	321-518A	BRACKET	RIGHT (D17)	
	l	207	435-278A	GEAR	RACK N/D	1
	l	207	256-910A	PLATE	GND TOP	1
		210	321-440A	BRACKET	SIDE	F .
			442-351A	SPRING	OC	NSP
		213			CST	NSP
	l	214	465-028A	OPENER	RID	NSP
	ļ	215	442-357A	SPRING	1=	
	1	216	465-027A	OPENER	RID	NSP
	ĺ	217	324-647A	HOLDER	R	NSP
		218	321-407A	BRACKET	SUPPORT	NSP
	l	219	321-405A	BRACKET	CARRIER	NSP
	1	220	324-646A	HOLDER	L	NSP
		221	333-210A	LEVER	DT	NSP
		222	442-358B	SPRING	DT	NSP
	l	225	384-074A	GUIDE	CST	1
		226	442-352A	SPRING	L	NSP
	1	227	435-254A	GEAR	از	NSP
		228	442-350A	SPRING	s/w	,,,,,,
_		1 220	-14-000A	or runo	1911	

MODEL:QUISY 40

RUN DATE : 94.06.27 NSP: Not Service Part

SAL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
	229	333-204A	LEVER	S/W	NSP
	230	423-368A	SHAFT	D	NSP
	231	442-353A	SPRING	R	NSP
	232	435-255A	GEAR	R	NSP
	233	435-2568	GEAR	C (HOOK ADDED)	NSP
	234	442-359C	SPRING	CUSHION (D17F/L)	NSP
	235	442-354A	SPRING	cc	NSP
	236	276-086A	CAP	DRIVE	NSP
		1,	SCREW		
\vdash	400	1MDC0302418	PAN HEAD MACHINE SCREW P/WASH+	D 3.0 L 8.0 MSWR3/FZY	
	401	1MPK0261418	PAN HEAD MACHINE SCREW+,-	D 2.6 L 4.0 MSWR3/FZY	
	402	353-021D	SCREW	SPECIAL	i
	404	353-048C	SCREW	CONE POINT 3X10	
	408	1MBC0302418	BINDING HEAD MACHINE SCREW+	D 3.0 L 8.0 MSWR3/FZY	1
	411	353-046B	SCREW	SPECIAL (3X8 FZMY)	
	412	1MBC0302818	BINDING HEAD MACHINE SCREW+	D 3.0 L 12 MSWR3/FZY	
	421	1MPC0302618	PAN HEAD MACHINE SCREW +	D3.0 L10.0,MSWR3/FZY	
	422	1MPC0302418	PAN HEAD MACHINE SCREW +	D3.0 L8.0 MSWR3/FZY	
	425	1SRF0302418	BRAIZER HD TAP TITE SCREW +	D3.0 L8.0 MSWR3/FZY	1
1	426	1MPC0302018	PAN HEAD MACHINE SCREW +	D 3.0 L 6.0 MSWR3/FZY	
			NUT, WASHER		
\vdash	503	354-020E	WASHER	STOPPER	
H	504	354-001B	WASHER	P.S D3.1XD6X0.5T	
	505	354-080E	WASHER	STOPPER	
	506	352-025A	NUT	NYLON M3	
	507	354-020J	WASHER	STOPPER(2.6X4.8X0.5)	
	508	352-033A	NUT	NUT NYLON(M3)	
	511	354-080C	WASHER	STOPPER	
	512	354-080E	WASHER	STOPPER	NSP
	513	354-080A	WASHER	STOPPER	NSP
	514	354-080B	WASHER	STOPPER	NSP
	516	354-033B	WASHER	STOPPER	

· Cabinet & Main Frame Section

RUN DATE : 94.06.27 NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
	•			ASSEMBLY PART	S SECTION	
		A43 A44 A45 A46	258-677S 3501R-0071A 3501R-0076A 3501R-0070A	PANEL BOARD ASSY BOARD ASSY BOARD ASSY	ASSY FRONT POWER PRE-AMP(4HD) MAIN	
				PARTS SEC	CTION	
	OR	250 260 260	217-448H 315-302C 315-302D	CASE FRAME FRAME	TOP MAIN MAIN(PAL)	NSP NSP

RUN DATE : 94.06.27 NSP: Not Service Part

- 100	1	DART NO/CEN	DESCRIPTION	SPECIFICATION	REMARKS
SAI	_ LOCA.NO 265 267 268 269 275 280 281 282 283 284 287 300 301 303 304 320 330 331 332 333	PART NO(GS) 477-034B 248-032W 255-151A 321-532A 324-802A 258-681H 435-427B 221-964S 226-077U 442-370A 524-007F 681-051A 321-421A 255-150A 221-407A 258-693A 221-786A 255-152A 255-152A	RUBBER LABEL PLATE BRACKET HOLDER PANEL GEAR COVER DOOR SPRING MAGNET CORD BRACKET PLATE COVER PANEL COVER PANEL COVER PANEL COVER PLATE PLATE PLATE	BUMPON MAIN SIDE GND(FTZ) HOUSING DIGITRON FRONT ASSY DAMPER(MILK) ASSY DOOR CST DOOR ASSY DOOR KKP-419J B-172 KLCE-2F PAL TR HEAT SINK FUSE ASSY DISTRIBUTOR BOTTOM DRUM SHIELD(FTZ) DECK GND (FTZ) POWER GND	NSP NSP NSP NSP
1	0.00	200 20	SCREW		
	452 462 463	353-051A 353-136A 1MBC0302418	SCREW SCREW BINDING HEAD MACHINE SCREW+	SPECIAL SPECIAL(FBK) (353S353A) D 3.0 L 8.0 MSWR3/FZY	

· Packing Accessory Section

RUN DATE : 94.06.27 NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801 802 803 804 808 810	480-477B 290-023A 283-239A 291-002B 534-008C 861-505B	INSTRUCTION ASSY BOX CARTON PACKING SHEET CUSHION BATTERY CABLE SET ASSY	E.PS AAAM(R03) 1.5V 1PAIR(LOCAL) RF-CABLE,ASSY,PAL	NSP

· Remote Control Section

RUN DATE: 94.06.27 NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900 901 902 903 904 905 906	597-112G 221-817A 255-344A 217-551B 556-254B 515-702E 236-452A	REMOTE CONTROL COVER PLATE CASE SWITCH PWB ASSY WINDOW	R/C ASSY 94PAL DOOR R/C TOP R/C 94PAL TOP R/C 94PAL W/D RUBBER A R/C 94PAL R/C(PAL) Q3 W/DOOR FILTER	

NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		907 908 909 914 916	221-815A 221-816A 442-582B 556-255A 1TPH0202016	COVER COVER SPRING SWITCH PAN HEAD TAPPING SCREW + 2	BOTTOM R/C BATTERY BATTERY 'A' RUBBER B R/C 94PAL D 2.0 L 6.0 MSWR3/(BK)	

Fixture Section

RUN DATE : 94.06.27 NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		FIX FIX1 FIX2	960-015C 232-972A 515-973A	FIXTURE BOARD ASSY PWB ASSY	SVC FIXTURE SVC FIXTURE SVC FIXTURE-2	

· Electrical Section

RUN DATE: 94.06.27

CAUTION: The * marks in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the SAFETY PRECAUTIONS and SERVICING PRECAUTIONS in the manual. Do not degrade the safety of the unit through improper servicing.

Tolerance

Symbol	С	J	К	M	N	Z	Р	Α
%	±2	±5	±10	±20	±30	+80 -20	+100 -10	+100 -10

CC, CJ, CK: Capacitor, Ceramic CE: Capacitor, Electrolytic CQ: Capacitor, Polyester

s	AL	LOCANO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
			CAP	ACITOR			C113	624-025A	4700UF-35V(23X37)
_			OA! 7	1011.011			C114	0CE4766F638	47M SMS 18V M FM5 TP5
		C001	0CN1040K948	0.1M 50V ZF TA26			C115	0CE4766F638	47M SMS 16V M FM5 TP5
		C002	OCN1040K948	0.1M 50V ZF TA26			C118	0CE4766F638	47M SMS 16V M FM5 TP5
		C003	OCN1040K948	0.1M 50V ZF TA26		1	C117	0CE4766F638	47M SMS 16V M FM5 TP5
		C004	OCN1040K948	0.1M 50V ZF TA26			C119	0CK2230K945	0.022M 50V Z F TS
		C005	0CN1030F678	0.01M 16V M Y TA26		l	C120	0CK2230K945	0.022M 50V Z F TS
		C006	OCN1030F678	0.01M 16V M Y TA26			C121	0CK2230K945	0.022M 50V Z F TS
		C007	0CN1030F678	0.01M 16V M Y TA26		ı	C122	0CK2230K945	0.022M 50V Z F TS
		C008	0CN1030F678	0.01M 16V M Y TA26		1	C123	0CE4774D638	470M SRA 10V M FM5 TP(5)
		C009	0CN1030F678	0.01M 16V M Y TA26		1	C124	0CK2230K945	0.022M 50V Z F TS
		C010	QCN1040K948	0.1M 50V ZF TA28			C201	0CQ4734K409	0.047U 50V J POLY TE TP
		C011	0CN1030F678	0.01M 16V M Y TA26			C202	0CE4766F638	47M SMS 16V M FM5 TP5
		C012	0CN2230H948	0.022M 25V Z F TA26		1	C203	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C013	0CE4764C638	47M SRA 6.3V M FM5 TP(5)			C204	OCN2230H948	0.022M 25V Z F TA26
		C014	0CN1040K948	0.1M 50V ZF TA28		1	C205	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C015	0CN1040K948	0.1M 50V ZF TA26			C206	0CE1051K636	1.0U SM 50V M FM5 BP TP(D)
		C016	0CC0500K015	5P 50V C NP0 TR			C207	0CE1066K638	10M SMS 50V M FM5 TP(5)
		C017	OCN1030F678	0.01M 16V M Y TA26			C208	0CE1066K638	10M SMS 50V M FM5 TP(5)
		C018	0CC3300K415	33P 50V J NP0 TP			C209	0CE1051K638	1.0U SM 50V M FM5 BP TP(D)
		C019	0CN1030F678	0.01M 16V M Y TA26			C211	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C021	0CN3310K518	330P 50V K B TA26			C212	0CQ1821N409	0.0018U 100V J POLY TP
		C022	0CN1030F678	0.01M 15V M Y TA26	1		C213	0CN4720F668	4700P 16V M X TA26
1		C023	0CN1030F678	0.01M 16V M Y TA26			C214	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C024	0CC8200K415	82P 50V J NPO TP			C215	0CE4766F638	47M SMS 16V M FM5 TP5
		C025	OCN2230H948	0.022M 25V Z F TA26		1	C216	0CC2210K405	220P 50V JSL TP
1		C026	0CE2274C638	220M SRA 6.3V M FM5 TP(5)		1	C217	0CC4700K415	47P 50V J NPO TP
l		C030	0CN1030F678	0.01M 16V M Y TA26		1	C218	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
l		C035	0CE4764C638	47M SRA 6.3V M FM5 TP(5)			C220	0CN4730K948	0.047M 50V Z F TA26
ı		C036	0CN2230H948	0.022M 25V Z F TA26			C221	0CE4746K638	0.47M SMS 50V M TP(5)
1		C037	0CE4764C638	47M SRA 6.3V M FM5 TP(5)		ı	C222	0CE4775F638	470M SR 16V M FM5 TP(5)
1		C101	624-018A	LINE DE7100 FZ 472P VA1-KC	11		C224	0CE4768F638	47M SMS 16V M FM5 TP5
	OR	C101	624-018D	LINE ECKDNS472ZV PAL MATSUSITA	Н		C225	0CQ4734K409	0.047U 50V J POLY TE TP
		C102	624-018A	LINE DE7100 FZ 472P VA1-KC			C226	0CE4756K638	4.7M SMS 50V M FM5 TP(5)
	OR	C102	624-018D	LINE ECKDNS472ZV PAL MATSUSITA	11	1	C227	0CE4756K638	4.7M SMS 50V M FM5 TP(5)
1		C103	0CK2230K945	0.022M 50V Z F TS	11		C241	0CN4730K948	0.047M 50V Z F TA26
		C104	0CE4786F610	4700M SMS 16V M FL	11		C290	0CN1030F678	0.01M 16V M Y TA26
1		C105	0CE4766F638	47M SMS 16V M FM5 TP5	Н	1	C291	0CE4775F638	470M SR 16V M FM5 TP(5)
		C106	0CE4766F638	47M SMS 16V M FM5 TP5	I I	1	C299	0CN1030F678	0.01M 16V M Y TA26
		C107	0CK2230K945	0.022M 50V Z F TS		1	C301	0CN2230H948	0.022M 25V Z F TA26
		C108	0CE4766F638	47M SMS 16V M FM5 TP5		1	C302	0CE2274F638	220M SRA 16V M FM5 TP(5)
1	l	C109	0CE1076L610	100M SMS 63V M FM5	11	1	C303	0CE3366F638	33M SMS 16V M FM5 TP(5)
1	1	C110	0CE1066K638	10M SMS 50V M FM5 TP(5)			C304	0CN8200K518	82PF 50V K B TA26
1		C111	0CE1076L610	100M SMS 63V M FM5	H	1	C306	0CQ6831N409	0.068U 100V JPOLY TP
1		C112	0CK2230K945	0.022M 50V Z F TS			C307	0CX5600K408	56P 50V J SL TA26

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	_			anno India	Г	s	A1 1	OCA NO	PART NO(GS)	<u> </u>
\$	AL	LOCA.NO		SPECIFICATION	┝	3	ΛL			8
	1	C308	0CE1076F638	100M SMS 16V M FM5 TP(5)	١			C392	0CN8200K518	0
		C309	OCN1030F678	0.01M 16V M Y TA26	- 1			C393	0CN2230H948 0CN2230H948	0
		C318	OCN1030F678	0.01M 16V M Y TA26	-1	- 1		C394 C395	0CN22301948 0CQ5631N409	١
	1	C319	0CX6800K408	68P 50V J SL TA26	- 1	- 1		C393	0CX3900K408	3
		C322	0CN1030F678	0.01M 16V M Y TA26				C398	OCN1510K518	1
		C323	0CX2200K408	22P 50V J SL TP26	-1			C399	0CX3300K408	3
	i	C324	0CE2274F638	220M SRA 16V M FM5 TP(5)	- 1	1		C3A1	0CN1010K518	lì
		C327	0CX6800K408	68P 50V J SL TA26 33P 50V J SL TA26	- 1			C3A3	0CN1040K948	ď
	1	C328	0CX3300K408	47P 50V JSL TA26	١			C3B1	0CE2256K638	12
		C329	0CX4700K408	6P 50V C NP0 TS	-			C3F1	0CX3900K408	13
		C330 C331	0CC0600K015 0CN1030F678	0.01M 16V M Y TA26	١			C401	OCN1020K518	11
	1	C332	0CE4766F638	47M SMS 16V M FM5 TP5	-1			C402	0CE4756K638	4
		C333	0CE2256K638	2.2M SMS 50V M FM5 TP(5)	- 1			C403	0CN2210K518	2
	1	C334	0CN1030F678	0.01M 16V M Y TA26				C404	0CE3366F638	13
	1	C335	0CN2230H948	0.022M 25V Z F TA26	- 1			C405	0CE2266F638	12
	l	C337	0CN1010K518	100P 50V KB TA26				C406	0CQ1031N409	1
		C338	0CN1030F678	0.01M 16V M Y TA26				C407	0CE4766F638	14
ì		C339	0CN2210K518	220P 50V KB TA26				C408	0CQ1031N409	10
	ı	C342	0CN4730K948	0.047M 50V Z F TA26				C410	0CE4766F638	ŀ
	ı	C343	0CX2200K408	22P 50V J SL TP26				C411	0CQ5631N409	ľ
	1	C344	0CN1030F678	0.01M 16V M Y TA26				C412	0CE2246K638	ľ
		C346	0CQ8221N409	0.0082U 100V J POLY TP				C413	0CN8220F668	П
	1	C347	0CN1030F678	0.01M 16V M Y TA26				C414	0CE1066H638	L
ł	1	C348	OCN2230H948	0.022M 25V ZF TA26	١			C415	0CQ6821N409	Ľ
l	1	C349	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	1			C416	0CE2244K638	Ľ
1	1	C350	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	Н		ı	C417	0CN4730K948	1
١	1	C351	0CE1064F638	10M SRA 16V M FM5 TP(5)	Н			C418	0CN4720F668	Ľ
		C353	0CE4775C638	470M SR 6.3V M FM5 TP(5)	ΙI			C419	0CQ1231N409	1
		C356	0CN2230H948	0.022M 25V Z F TA26	П			C421	0CE4756K638	ľ
		C357	0CE4775C638	470M SR 6.3V M FM5 TP(5)	П			C422	0CE1066H638	ŀ
1		C358	0CE4766F638	47M SMS 16V M FM5 TP5	П			C423	0CE4766F638	1
1		C360	0CN1030F678	0.01M 16V M Y TA26	П			C424	0CE1054K638	1
ı		C361	0CE4766F638	47M SMS 16V M FM5 TP5	П			C4L2 C501	0CQ2731N409 0CN1030F678	ľ
ı		C363	0CX6800K408	68P 50V J SL TA26	Н			C502	0CE1066H636	ŀ
ı		C364	0CC0500K015	5P 50V C NP0 TR	П		ı	C502	0CN1030F678	١
l		C365	0CE1064F638	10M SRA 16V M FM5 TP(5)	Н			C504	0CN1030F678	1
1		C366	0CE1066H638	10M SMS 25V M FM5 TP	П			C505	0CN1030F678	ı
l	1	C367 C368	0CE3346K638 0CN2230H948	0.33M SMS 50V M FM5 TP(5) 0.022M 25V Z F TA26	П		1	C508	0CN1030F678	١
1		C369	0CQ2231N409	0.022M 25V 2 F 1A20 0.022U 100V J POLY TP	П			C507	0CN1030F678	1
1	1	C370	0CN1030F678	0.01M 16V M Y TA26	П		١.	C508	0CN1030F678	1
ľ	1	C371	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	ll			C509	0CE1054K638	
		C372	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	H			C510	0CC2200K415	1
1	1	C373	0CQ4734K409	0.047U 50V J POLY TE TP	1 I			C511	0CC2400K415	
		C374	0CC4710K405	470P 50V JSL TP	H			C512	0CN2230H948	1
1		C375	0CE1076F638	100M SMS 16V M FM5 TP(5)				C513	0CN2230H948	1
1	ı	C376	0CN2230H948	0.022M 25V Z F TA26	П			C514	0CE1076H638	
1		C377	0CC2010K405	200P 50V JSL TS				C515	0CE1076H638	1
1	1	C378	0CX1500K408	15P 50V JSL TA26		l	1	C516	0CN1030F678	1
1		C379	0CC4300K405	43P 50V JSL TP	1	ı	1	C517	0CN1030F678	1
1		C381	0CN1810K518	180P 50V KB TA26				C518	0CE1076H638	
Ĺ	1	C382	0CC3910K405	390P 50V JSL TP				C519	0CE1076H638	1
1	1	C383	0CN2230H948	0.022M 25V Z F TA26			1	C520	624-027A	1
1		C384	0CE4775C638	470M SR 6.3V M FM5 TP(5)	1		1	C521	0CE2274C638	1
1		C385	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			1	C522	0CN1030F678	1
1		C386	0CN1030F678	0.01M 16V M Y TA26		1	1	C523	0CN1020K518	1
	1	C387	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	1	1	1	C524	0CN2230H948	1
1	1	C388	0CN2230H948	0.022M 25V Z.F. TA28	1	1	1	C526	0CE1066H636	١
١	1	C389	0CN1040K948	0.1M 50V ZF TA26	1			C5A2	0CN8200K518	١
1		C390 C391	0CE4756K638	4.7M SMS 50V M FM5 TP(5)	1	1		C601 C602	0CE4766F638	
1	1	C391	0CX6800K408	68P 50V J SL TA26	1	ľ		C002	0CE4766F638	

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S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		C392	0CN8200K518	82PF 50V K B TA26
		C393	OCN2230H948	0.022M 25V Z F TA26
		C394	0CN2230H948	0.022M 25V Z F TA28
		C395	0CQ5631N409	0.056U 100V J POLY TP 39P 50V J SL TA26
		C397	0CX3900K408 0CN1510K518	150P 50V KB TA26
	l	C398 C399	0CX3300K408	33P 50V J.SL TA26
	1	C3A1	0CN1010K518	100P 50V KB TA26
		C3A3	0CN1040K948	0.1M 50V ZF TA26
		C3B1	0CE2256K638	2.2M SMS 50V M FM5 TP(5)
		C3F1	0CX3900K408	39P 50V J.SL TA26
		C401	0CN1020K518	1000P 50V KB TA26
		C402	0CE4756K638	4.7M SMS 50V M FM5 TP(5)
		C403	0CN2210K518	220P 50V KB TA26 33M SMS 16V M FM5 TP(5)
	ı	C404 C405	0CE3366F638 0CE2266F638	22M SMS 16V M FM5 TP5
		C405	0CQ1031N409	0.01U 100V JPOLY TP
	1	C406	0CE4766F638	47M SMS 16V M FM5 TP5
	1	C408	0CQ1031N409	0.01U 100V JPOLY TP
	1	C410	0CE4766F638	47M SMS 16V M FM5 TP5
		C411	0CQ5631N409	0.058U 100V J POLY TP
	1	C412	0CE2246K638	0.22M SMS 50V M FM5 TP(5)
		C413	0CN8220F668	8200P 16V M X TA26
	1	C414	0CE1066H638	10M SMS 25V M FM5 TP
		C415	0CQ6821N409	0.0068U 100V J POLY TP 0.22M SRA 50V M FM5 TP(5)
	1	C416	0CE2244K638 0CN4730K948	0.047M 50V Z F TA26
	1	C417 C418	0CN4730K548	4700P 16V M X TA26
	1	C419	0CQ1231N409	0.012U 100V J POLY TP
		C421	0CE4756K638	4.7M SMS 50V M FM5 TP(5)
		C422	0CE1066H638	10M SMS 25V M FM5 TP
		C423	0CE4766F638	47M SMS 16V M FM5 TP5
		C424	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C4L2	0CQ2731N409	0.027U 100V J POLY TP
		C501	0CN1030F678	0.01M 16V M Y TA26
	1	C502	0CE1066H636	10M SMS 25V M FM5 BP TP(D) 0.01M 16V M Y TA26
		C503	0CN1030F678 0CN1030F678	0.01M 16V M Y TA26
		C504 C505	0CN1030F678	0.01M 16V M Y TA26
		C506	0CN1030F678	0.01M 15V M Y TA26
		C507	0CN1030F678	0.01M 16V M Y TA26
	1.	C508	0CN1030F678	0.01M 16V M Y TA28
		C509	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C510	0CC2200K415	22P 50V J NP0 TS
		C511	0CC2400K415	24P 50V J NPO TP
		C512	0CN2230H948	0.022M 25V Z F TA26
		C513	0CN2230H948	0.022M 25V Z F TA28 100M SMS 25V M FM5 TP5
	1	C514 C515	0CE1076H638 0CE1076H638	100M SMS 25V M FM5 TP5
		C515	0CE1076H638 0CN1030F678	0.01M 16V M Y TA26
		C517	0CN1030F678	0.01M 16V M Y TA26
	1	C518	0CE1076H638	100M SMS 25V M FM5 TP5
		C519	0CE1076H638	100M SMS 25V M FM5 TP5
		C520	624-027A	GOLD 0.047F-5.5V D13.0X8.5 NEC
	1	C521	0CE2274C638	220M SRA 6.3V M FM5 TP(5)
		C522	0CN1030F678	0.01M 16V M Y TA26
	1	C523	0CN1020K518	1000P 50V KB TA26
		C524	0CN2230H948	0.022M 25V Z F TA26
	1	C528	0CE1066H636	10M SMS 25V M FM5 BP TP(D)
		C5A2 C601	0CN8200K518 0CE4766F638	82PF 50V K B TA26 47M SMS 16V M FM5 TP5
		C602	0CE4766F638	47M SMS 16V M FM5 TP5
		3002	WE-7/00/ 030	The same to a memorino

C619 CC627696783 47M SMS 50V M FMS TPS C621 CC627200434 50 CC627206783 47M SMS 50V M FMS TPS C621 CC627200434 50 CC627206783 20 CC627206783 2										RUN DATE : 94.06.27
C803 CRE1054K238 1.0M SPAGSSSV M FINE TIPS 1.0M SPAGSSV M FINE TIPS 1.0M SPAGSV M FINE TIPS 1.0M SPAGSSV M FINE TIPS	s	AL	LOCANO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
C800	-	H			A ON CRAPCION MENS TRIS	\neg \vdash	T	C904	0CQ2241N400	0.22U 100V JPOLY S
C886 C0E/T96F638 ATM SMIS 16 W MAS TP5 C997 C0E/T96F638 ATM SMIS 16 W MAS TP5 C998 C0E/T96F638 ATM SMIS 16 W MAS TP5 C998 C0E/T96F638 CAP SMIS 16 W MAS TP5 C998 C0E/T96F638 CAP SMIS 16 W MAS TP5 CAP SMIS 16 W MAS T						11			0CQ4731N409	0.047U 100V J POLY TP
C807 CSC-F79F8-83								C906	0CN1030F678	
CSR77 CSR7756783 AM SMS 15Y M PMS TP5 CA02 CC224/6628 CA02 CC224/6628 CA03 CC224/6628		1						C907	0CE4766F638	
CADE		1 1				- 1 1		C908	0CE4766F638	
C612 CCE/175688 470N SR 6 SW M FMS TP(6) CA05 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC							1	CA02		
CE113						- 1-1	ı			
C614 C0E1064F638 CM SPA 16V M PMS TP(5) CADS CCL203H948 COE203H948 COE203H94					10M SRA 16V M FM5 TP(5)		i			
C815 C0E1064F838 10M SPA 16V M PMS 17(5) 10M SPA 16V M PMS 17(0CE1064F638	10M SRA 16V M FM5 TP(5)	- 1 1				
C817 C9C4775C938 A70M SR 6.3'M R45 TP(S)			C615	0CE1064F638	10M SRA 16V M FM5 TP(5)	1 L	丄	CA06	0CN2230H948	U.UZZM 25V Z F 1A26
C617 C62175/C638 C619 C621676/C638 C620 C621676/C638 C622 C622000404 C622000404 C622004040 C62200404 C622004040 C622004			C616	0CE1064F638		IГ			ום	ODE
C819 CCE4768F838 A7N SMS 50V M FMS TPS CE220 CCE4768F838 CCE21 CCE4768F838 CCE21 CCE4768F838 CCE21 CCE4768F838 CCE21 CCE4768F838 CCE220 CCE4768F838 CCE220 CCE4768F838 CCE220						ΙL				
C620 CCH220H48 C621 CCH220H48 C622 CCH220H48 C624 CCH220H48 CCH2		1				1.5	T	D002	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
CR221 CR2229H948 CR222 CR2210K518 CR229 SOV K B TA26 D103 D1030Z07000AA ZA77 2A RECTIFIERS(T)SDELTA CR220 CR2210K518 CR220 SOV K B TA26 D105						- 1		D101	0DD207000AA	
C622 C0K42210KS18 220P 50V K B TA26 D104 D10527000AA 2A0T 2A RECTIFICERS(T)SDELTA C625 C0K42210KS18 220P 50V K B TA26 D106 D106207000AA 2A0T 2A RECTIFICERS(T)SDELTA C625 C0K2210HS8 220P 50V K B TA26 D107 C0K2230HS8 C702 C0K2230HS8 C702 C0K2230HS8 C702 C0K2230HS8 C703 C0K2230HS8 C703 C0K2230HS8 C704 C0K2230HS8 C705 C0K2230HS8 C705 C0K2230HS8 C705 C0K2230HS8 C705 C0K2320HS8 C705 C0K2320H						- 1 1	-	D102	0DD207000AA	
Color Colo						- 1 1	-	D103	0DD207000AA	
C624 CCN2210K518 220P 50V KB TA26 C625 CCX220H48 C702 CCX220H48 C702 CCX220H48 C702 CCX220H48 C702 CCX220H48 C702 CCX220H48 C703 CCX220H48 C704 CCX220H48 C705 CCX220H48 C705 CCX220H48 C705 CCX220H48 C705 CCX220H48 C706 CXX200H49 CXX200H49 C706 CXX200H49 CXX200H49 CXX200H49 CXX200H49							١	D104	0DD207000AA	
Color Colo		l				- 1 1		D105		
CC2390R448		1								
C701						- 1 1				
C702		1				- 11	- [
C704 OCE476F683 d70M SMS 16V M FMS TP5 D111 ODD131009AA OCH2020F848 d70M SR 16V M FMS TP(5) D113 ODD131009AA ODD131009AA OCH2020F848 d70M SR 16V M FMS TP(5) D113 ODD131009AA		l					- 1			
C704 CC705 CC4775F689 C706 CC240H3409 C707 CC240H3409 C708 CC240H3409 C709		1				- 1 1	- 1			
C706 OCE-678F638 070M SRI 16V M FM5 TP(5) 0.11 00V J POLY TP 0.01 10109A 0.11 100V J POLY TP 0.02 00 101109AA 0.11 100V J POLY TP 0.11 100V J POLY TP		1				- 1 1	H			
C708 OCE1068K38 C708 OCI041N409 O.U 100V JPOLY TP O.U 100V JPOLY TP D.U 100V JPOLY		1			470M SR 16V M FM5 TP(5)	- 1 1		-		
C708		1				- 11	- 1			
C709		1		0CQ1041N409	0.1U 100V JPOLY TP	- 1 1	- 1			1SS131 DETECT SW(26MM)TP BOHM
C710				0CQ1041N409	0.1U 100V JPOLY TP	- 11				188131 DETECT.SW(26MM)TP ROHM
C711		1	C710	0CQ1041N409		- 11				1SS131 DETECT.SW(26MM)TP ROHM
C712 CX11030F6F638 C713 CX2476F6F638 C714 CX11040K948 C716 CX2210K495 C716 CX2220K495 CX22220K495 CX22220K495 CX22222K495 CX2222K495 CX22222K495 C		1	C711	0CE3346K638			- [
C714			C712			- 11	1			1SS131 DETECT,SW(26MM)TP ROHM
C714 CCN1040/G948 C1M CCN1040/G948 C2M CON 220 CAND CCN220 CCN220 CCN220 CCN220 CN220		1								1SS131 DETECT,SW(26MM)TP ROHM
C730 CCE4768F638 C801 CCE2274F638 C802 CCC1800K415 C803 CCC2200K415 C804 CCC220K415 C805 CCC220K415 C806 CCC220K415 C807 CCC220K415 C807 CCC220K415 C807 CCC220K415 C808 C809 CCC220K415 C808 C809 CCC220K415 C808 C809 CCC220K415 C808 C809 C8						- 11	- 1		0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
C801 CE2274F638 C802 COC1800K415 18P 50V J NPO TS D303 C803 C803 C804768F638 C806 C80						- 1 1		D211	00D400309AB	
C802 OCC1800K415 18P 50V J NPO TS 22P 50V 50P						- 11	- 1	D301	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM
C803 OCC2200K415 C2P SOV J NP0 TS C300K SRA 16V M FM5 TP(5) C302M SRA 16V							- 1			
C804 C62274F638 C6865 C0N2230H948 C687 C0N2230H948 C689 C0C2274F638 C689 C0C2274F638 C689 C0C274F638 C689		1				- 1 1	- 1	D303	0DD131009AA	
C805 CCN2230H948 C806 CCE4768F638 C807 CCN2230H948 C806 C807 CCE4768F638 C807 CR230H948 C807 CR230H948 C807 CR230H948 C808 C809 CR2274F828 C809 CR		1				- 11				
C806 CC4766F638 CR07 CCX2230H948 CR07 CCX2230H948 CR07 CR08 C		1				- 11	- 1			
C807 CN2230H948 C808 CX3990K408 39P 50V JSL TA28 TA28 C809 CX29274F838 C810 CX29274F838 C810 CX29274F838 C810 CX29274F838 C810 CX29274F838 C811 CX29274F838 C812 CX29274F838 C812 CX29274F838 C813 CX29274F838 C813 CX29274F838 C814 CX29274F838 CX292						- 11				
C888 OCX3900K408 S9P 50V J SL TA28 D505 ODD131009AA ISS131 DETECT,SW(26MM)TP ROH D505 D507 ODD131009AA ISS131 DETECT,SW(26MM)TP ROH D505 D507 ODD131009AA ISS131 DETECT,SW(26MM)TP ROH D508 ODD131009AA ISS131 DETECT,SW(26MM)TP ROH D509 ODD131						- 11	- 1			
C809 OCE274F838 220M SRA 16V M FM5 TP(5) D507 ODD400309AB IN40034(1SR35-200A)5MM TP ROH D508 ODD131009AA ISS131 DETECT,5W(26MM)TP ROH D508 ODD131009AA ISS131 DETECT,5W(26MM)TP ROH D508 ODD131009AA ISS131 DETECT,5W(26MM)TP ROH D509 ODD131009AA		1				- 11				
C810		1			220M SRA 16V M FM5 TP(5)	- 11				
C811 OCC3900K415 39P 50V NPO TP D5A1 DD131009AA D5G1 DD131009AA DG131009AA D5G1 DG131009AA DG131009A		1				- 11				
C812 C0K1010KS18 100P 50V KB TA28 D5G1 DD131009AA ISS131 DETECT,SW(28MM)TP ROH C813 C0K1010KS18 100P 50V KB TA28 D5G1 DD131009AA ISS131 DETECT,SW(28MM)TP ROH C815 C0K1010KS18 100P 50V KB TA28 D5S1 DD131009AA ISS131 DETECT,SW(28MM)TP ROH D5S1 DD131009AA ISS131 DETECT,SW(28MM)TP ROH D5S5 D5S6 DD131009AA ISS131 DETECT,SW(28MM)TP ROH D5S6					***		1			
C813 C0R1010KS18 100P 50V KB 1A26 D594 C815 C816 C817 C817 C818 C817 C818 C8		1	C812	0CN1010K518					1	
C814 C0N1010K518 100P 50V KB TA26 D5S1 ODD131009AA ISS131 DETECT,SW(26MM)TP ROH			C813							
C815 C0N10101681 10UP 50V KB 1A26 D5S5 DD131009AA ISS131 DETECT,SW(26MM)TP ROH		1	C814							
C816 C0.42768F638 C821 C0.42768F638 C821 C0.4768F638 C821 C0.4768F638 C821 C0.4768F638 C821 C0.4768F638 C822 C0.4768F638 C822 C0.4768F638 C822 C0.4768F638 C822 C0.4768F638 C823 C0.4768F638 C824 C824 C825 C825 C825 C825 C826 C826 C826 C826 C826 C82768F638 C82768F638 C82768F638 C82768F638 C82768F638 C82768F638 C82768F638 C82768F638 C82768F638 C90768F638 C907688F638 C9076888F638 C9076888888888888888888888888888888888888										
C817 CC-4766F638 47M SMS 16V M FM5 1P5 C821 CC-4766F638 470P 50V KB TA26 C822 CR1230H948 C824 CR2230H948 C824 CR2230H948 C825 C824 CR2250H948 C825 C824 CR2250H948 C825 C826 C826 C826 C826 C826 C826 C827	١	1				- 11	H			
C818 CCE4766F638 4/M SMS 16V M FMS 1PS C821 C0CM4710K518 470P 50V KB TA26 C822 C0CM270K518 1000P 50V KB TA26 C823 CCM2230H948 C824 CCM2230H948 C824 CCM2230H948 C824 CCM2230H948 C825 C625 C625 C62766F638 C826 C700 C62766F638 C700 C	l									
C821 C0N47/016518 470P 50V KB 1A26 D602 DD131009AA ISS131 DETECT,SW(26MM)TP ROH	١	1								
C822 C823 C823 C82301H948 C824 C82301H948 C825 C824 C82301H948 C825 C824 C825 C824 C825 C82	ı						Ιl			1SS131 DETECT,SW(26MM)TP ROHM
C823 CX2230H948 0.022M 25V Z F TA26 D702 0DD131009AA ISS131 DETECT,SW(26MM)TP RO- C825 CCE4766F638 47M SMS 16V M FM5 TP5 D802 DD131009AA ISS131 DETECT,SW(26MM)TP RO- C901 CCE4766F638 47M SMS 16V M FM5 TP5 D802 DD131009AA ISS131 DETECT,SW(26MM)TP RO- C902 CCN1020K518 1000P 50V K B TA26 DA01 DD131009AA ISS131 DETECT,SW(26MM)TP RO-	١									
C824 CN2230/1948 0.022M/259/2F A26 D801 ODD131009AA ISS131 DETECT,SW(26MM)TP RO- C825 OCE4766F638 47M SMS 167 M FM5 TP5 D802 ODD131009AA ISS131 DETECT,SW(26MM)TP RO- C902 OCN1020K518 1000P 50V K B TA26 DA01 ODD131009AA ISS131 DETECT,SW(26MM)TP RO-	١									
C825 C0E4706F638 47M SMS 10V M FMS 1F5 D802 DD131009AA ISS131 DETECT,SW(26MM)TP ROL C902 OCN1020K518 1000P 50V K B TA26 DA01 ODD131009AA ISS131 DETECT,SW(26MM)TP ROL C902 OCN1020K518 1000P 50V K B TA26 DA01 ODD131009AA ISS131 DETECT,SW(26MM)TP ROL C902 OCN1020K518 OCN	l					1				
C902 0CN1020K518 1000P 50V KB TA26 DA01 00D131009AA 1SS131 DETECT,SW(26MM)TP ROF	١					1		D802		1SS131 DETECT,SW(26MM)TP ROHM
1 1 1 1 1 1 1	1					- 1		DA01		
	١					- 1			1	
	L	\perp	0000	000002111400	1		oxdot		1	1

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s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
			DISPLA	Y TUBE
		DG901	514-032A	9BT-123GK 85X25 PAL SEJIN
			DELA	Y LINE
	Г	DL301	617-011A	MS-31PC (KSS)
			FU	JSE
	Π	F101	585-011A	T 500MA 250V S504
		F102	585-011C 585-011K	T 1.6A 250V S506 T2A, 250V (BESWICK)
-		F103		TER
L	_	T		
	1	FL101 FL301	616-004B 616-064B	LINE 801-302-FD(BUJEON) LJC LPF1.5-1B(YL-0170A)S/S
1		Z301	616-323A	SFE4.25MBF (MURATA)
				IC
一	T	IC001	0ISA737400A	LA7374(PRE-AMP 4HEAD Y/C)
		IC101	01KE780060A	KIA78006AP-KIA7806P(REG 6V 1A) AN7806 6V1AREG MATSUSHITA
ļ	OF	IC101 IC102	01MA780600A 01KE780060A	KIA78006AP=KIA7806P(REG 6V 1A)
ı	OF		01MA780600A	AN7806 6V1AREG MATSUSHITA
ı	1	IC201	01HI497560A	HD49756NT(SERVO)
1	1	IC301	0ISA739000A	LA7390(PAL,Y/C1CHIP)
1		IC302	01RH702500A	BA7025L PAL/MESECAM SYNC DETEC
		IC303	01KK740300B 01RH779000A	MSM7403RS(2H CCD) DIP-PACK BA7790LS(AUDIO NORMAL)
l	1	IC401	01MI381840X	M38184MA-134FP(SY+TI)
1	1	IC502	0IGS744500A	GL7445 (MOTOR DRIV-1CH) GSS
1	1	IC503	0IMT523000B	PST-523G/T(3.3V) LOW
١	1	IC504	0ISM258600A	SDA2586 NVM,8K BIT
1	1	IC601	0ISA715600A	LA7156 (CANAL SM)
ı		IC701	0ISA791000A	LA7910 TV BAND SELEC M35010-110SP(OSD)
		IC801 IC901	OIMI350100M OITF422100A	U4221B-A AUTO CLOCK SETTING
		ICA01	015M564900A	SDA5649 (VPS+PDC)
r			(COIL
r		ANT90	633-054A	ANTENNA COIL (DAISHIN) 77.5KHZ
1	-	86F1	636-010A	BEAD,BL01RN1-A62,MURATA
1		B6F2	636-010A	BEAD,BL01RN1-A62,MURATA 10UH 5% 4X5 TR5
١		L001	0LR0102J025 0LR1000K035	100M K 6X6 L5 TP
1	-	1.003	0LA1800K018	180M K 2.3X3.4L5 TP
1	-	L004	0LR0102J025	10UH 5% 4X5 TR5
1	-	L005	0LR0562J025	56UH 5% 4X5 TR5
1		L006	0LA0332K018	33M K 2.3X3.4L5 TP 27M K 2.3X3.4L5 TP
١		L045 L201	0LA0272K018 0LR1000J025	100UH 5% 4X5 TR5
1	1	L202	0LR1000J025	100UH 5% 4X5 TR5
1		L301	637-013B	PECK 6.80MH-J NYE
1		L302	0LR1000J025	100UH 5% 4X5 TR5
		L304	0LA0152K018	15M K 2.3X3.4 L5 TP
١	-	L305	0LA0332K018 0LA0332K018	33M K 2.3X3.4 L5 TP 33M K 2.3X3.4 L5 TP
١	- 1	L306 L307	0LA032K018	4.7M K 2.3X3.4L5 TP
-	- 1	L308	0LR1000J025	100UH 5% 4X5 TR5
١		L309	0LA0332K018	33M K 2.3X3.4 L5 TP

S AL LOCA.NO PART NO(GS) SPECIFICATION						RUN DATE: 94.06.27
Carronomocos Carr		s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
Carrell		Г	\top	L310	0LA0472K018	
L313		1	1	L311	0LR2700J025	
L314 OLA0332K018 CLR1000J025 OLR1000J025 OLR1000						
Carrier Carr						
L316		l	1			
Carrell		1	1			
U318		ı	1			
L319		l	1			
1.320		١				
L3A2		L	1		0LA0332K018	
L401		1	1	L3A1	0LA0472K018	
L402		1	1	L3A2		
L403		ı	1			
LS01	ı	١			***************************************	
LS02		1	1			
LS03	ı	1	1			
LSO4		1	1			
LSO6	ı		1			100UH 5% 4X5 TR5
L801 OLR1000J025 L00UH 5% 4X5 TB5 L00M K 2.3X3.4 L5 TP L00	1	1	-		0LA0221K018	
L602	l	1	1	L506		
L803	l	ı	1			
L805	ı					
L606	l	ı	1			
L608	١	1				
L609	١		1			
L701		1	-			
L703	Ί	1				
L704	۱	1	-		OLR 1000J025	
L705	١	1				
L708	١	1				
L801	١	1				
L002	١	١	- 1			
L803	١	1	- 1			
L804 OLR1000U025 100UH 5% 4X5 TR5 L805 OLA0332K018 33M K 2.3X3.4 L5 TP L806 OLA0122K018 12M K 2.3X3.4 L5 TP L807 OLR1000U025 100UH 5% 4X5 TR5 L901 OLR1000K035 100UH 5% 4X5 TR5 L901 OLR1000K035 100M K 6X6 L5 TP 100M K 6X6 L	ı	ı	1			
L806	١	1				
L807	1	-	1	L805	0LA0332K018	
L888 OLR10000025 100UH 5% 4X5 TR5 100UH 6 % 4X5 TR5 100U	┨	1		L806		
L901 OLR1000K035 100M K 6X6 L5 TP 100M F 5X 4X5 TR5 100M F 5X	1	-	- 1			
L902 OLR1000K005 100M K 6X6 L5 TP 100UH 5% 4X5 TR5 100H	۲	-1				
LA01 OLR1000J025 100UH 5% 4X5 TR5 BIAS-OSC(MISUMI) 70KHZ	١	-	- 1			1.00
T401 693-032C BIAS-OSC(MISUMI) 70KHZ	١	1				
LD901 0DL112000AJ DL-11S2RNS(SUPER,RED,03)KOC	١	١				
LD901 0DL112000AJ DL-11S2RNS(SUPER,RED,03)KOC	ļ	-		1,401	100 0020	
CIRCUIT BOARD ASSEMBLY PBJT0		-		T	1	
PBJT0 515-700B JUNCTION 2 D-17S PBM00 6871R-0070A MAIN PBPR0 6871R-0074A PBT00 6871R-0073A PBY00 6871R-0075A YJC-SUB		1				
PBM00 6871R-0070A MAIN POWER PBP00 6871R-0071A PENDER PBF00 6871R-0073A TIMER/ACSS PBY00 6871R-0075A Y/C-SUB					CIRCUIT BO	
PBP00 6871R-0071A POWER PBP00 6871R-0074A PREMIERE/VPS/PDC PBT00 6871R-0073A TIMER/ACSS PBY00 6871R-0075A Y/C-SUB	Ì					
PBPR0 6871R-0074A PREMIERE/VPS/PDC PBT00 6871R-0073A TIMER/ACSS PBY00 6871R-0075A Y/C-SUB						
PBT00 6871R-0073A TIMER/ACSS PBY00 6871R-0075A Y/C-SUB		Н				
PBY00 6871R-0075A Y/C-SUB		П				
TRANSFORMER						
					TRAI	NSFORMER
	_	1				

	AL	LOCA.NO	PART NO(GS)	SPECIFICATION		s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
	OR	PT101	641-042B	120V/230V/240V/50HZ	Γ			Q707	0TR117009AA	FET KTK117A(Y,GR) TP KEC
1		PT101	641-342B	120V/230V/240V/50HZ				Q720	0TR126609AE	KTA1268-GR,TP(KTA1015),KEC
_			TD 431	CICTOR				Q721	0TR103009AE	KRC103M-TP (KRC1203) KEC
			IHAN	SISTOR		١		Q801	0TR126609AE	KTA1268-GR,TP(KTA1015),KEC
٦		0004	OTD04000040	ATCONO TO DI WITCHOLDINEC		-		Q802	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
-		Q001	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC KTC3198-TP-BL (KTC1815)KEC		- 1		Q803	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q002	0TR319809AC					Q804	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q003	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC KTA1267-GR MINI TP KEC		ŀ		Q805	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q004	0TR126709AC	KRA103M-TP (KRA2203) KEC		ŀ		Q806	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
1		Q005	0TR103009AF			ŀ		Q810	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
-		Q006	0TR103009AE	KRC103M-TP (KRC1203) KEC	ш	ı		Q901	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
1	OR	Q101	0TR141400AA	KTD1414 POWER (220 PACK) KEC	L			Q902	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
	OR	Q101	0TR239900AA	2SD2399(R) POWER ROHM KTD1414 POWER (220 PACK) KEC					DEC	ISTOR
	UH	Q102 Q102	0TR141400AA 0TR239900AA	2SD2399(R) POWER ROHM					neo	131011
		Q102	0TR103009AF	KRA103M-TP (KRA2203) KEC	Г	٦		R001	0RD2202F608	22K 1/6W 5 TA26
		Q103	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC		1		R002	0RD2202F608	22K 1/6W 5 TA26
		Q105	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	1			R003	0RD6801F608	6.8K 1/6W 5 TA26
1		Q106	0TR126709AC	KTA1267-GR MINI TP KEC				R004	0RD6801F608	6.8K 1/6W 5 TA26
		Q201	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	П			R005	0RD1001F608	1.0K 1/6W 5 TA26
		Q202	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	H			R006	0RD1001F608	1.0K 1/6W 5 TA26
		Q203	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	П	-		R007	0RD2202F608	22K 1/6W 5 TA26
		Q204	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	П	1		R008	0RD2202F608	22K 1/6W 5 TA26
		Q205	0TR103009AE	KRC103M-TP (KRC1203) KEC				R009	0RD1001F608	1.0K 1/6W 5 TA26
		Q206	0TR103009AE	KRC103M-TP (KRC1203) KEC	Н			R010	0RD2201F608	2.2K 1/6W 5 TA26
		Q207	0TR103009AF	KRA103M-TP (KRA2203) KEC				R011	0RD2201F608	2.2K 1/6W 5 TA26
		Q208	0TR103009AF	KRA103M-TP (KRA2203) KEC				R012	0RD3900F608	390 1/6W 5 TA26
		Q209	0TR103009AF	KRA103M-TP (KRA2203) KEC				R013	0RD1201F608	1.2K 1/6W 5 TA26
		Q301	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	1			R014	0RD3900F608	390 1/5W 5 TA26
		Q305	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	П			R015	0RD5601F608	5.6K 1/6W 5 TA26
		Q306	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC	Н			R016	0RD2201F608	2.2K 1/6W 5 TA26
		Q307	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	Н			R017	0RD1001F608	1.0K 1/6W 5 TA26
		Q308	0TR103009AE	KRC103M-TP (KRC1203) KEC				R018	0RD1801F608	1.8K 1/6W 5 TA26
		Q309	0TR103009AE	KRC103M-TP (KRC1203) KEC				R019	0RD5600F608	560 1/6W 5 TA26
		Q310	0TR103009AE	KRC103M-TP (KRC1203) KEC	П			R020	0RD1201F608	1.2K 1/6W 5 TA26
		Q312	0TR126609AE	KTA1266-GR, TP(KTA1015), KEC	Н			R021	0RD3901F608	3.9K 1/6W 5 TA26
		Q313	01R126609AE	KTA1266-GR,TP(KTA1015),KEC	Н			R022	0RD2201F608	2.2K 1/6W 5 TA26
		Q314	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC	11			R023	0RD3302F608	33K 1/6W 5 TA26
		Q315	0TR103009AE	KRC103M-TP (KRC1203) KEC	Н			R024	0RD3302F608	33K 1/6W 5 TA26
		Q316	0TR103009AE	KRC103M-TP (KRC1203) KEC	П			R025	0RD1501F608	1.5K 1/6W 5 TA26
		Q317	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	H			R026	0RD1002F608	10K 1/6W 5 TA26
		Q318	0TFI319809AC	KTC3198-TP-BL (KTC1815)KEC	11			R101	0RD5601F608	5.6K 1/6W 5 TA26
	1	Q319	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC				R102	0RD1001F608	1.0K 1/6W 5 TA26
		Q321	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC	П		ŀ	R103	0RD1003F608	100K 1/6W 5 TA26
		Q3B1	0TR103009AE	KRC103M-TP (KRC1203) KEC	11			R104	0RD5601F608	5.6K 1/6W 5 TA26
		Q401	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC	Н			R105	0RD1801F608	1.8K 1/6W 5 TA26
		Q402	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	Ιl			R106	0RD1001F608	1.0K 1/6W 5 TA26
		Q403	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC	[]			R107	0RD1001F608	1.0K 1/6W 5 TA26
		Q404	0TR103009AE	KRC103M-TP (KRC1203) KEC	1			R108	0RD0752F608	75 1/6W 5 TA26
		Q405	0TR103009AE	KRC103M-TP (KRC1203) KEC	ı			R109	0RD4702F608	47K 1/6W 5 TA26
		Q501	0TR103009AE	KRC103M-TP (KRC1203) KEC	11			R201	0RD1502F608	15K 1/6W 5 TA26
		Q502	0TR103009AE	KRC103M-TP (KRC1203) KEC	П			R202 R203	0RD6802F608	68K 1/6W 5 TA26
		Q503	0TR103009AE	KRC103M-TP (KRC1203) KEC	П		1		0RD1502F608	15K 1/6W 5 TA26
	ı	Q504 Q601	0TR319809AC 0TR320509AB	KTC3198-TP-BL (KTC1815)KEC KTC3205-TP-Y (KTC2236A)KEC	П			R204 R205	0RD1501F608 0RD3301F608	1.5K 1/6W 5 TA26
	l	Q604	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC	H			R206	0RD1003F608	3.3K 1/6W 5 TA2B 100K 1/6W 5 TA26
	l	Q605	0TR103009AE	KRC103M-TP (KRC1203) KEC	П			R207	0RD3302F608	33K 1/6W 5 TA26
	l	Q701	OTR127309AA	KTA1273-TP-Y (KTA966A)KEC	П		1	R208	0RD1002F608	10K 1/6W 5 TA26
		Q702	0TR103009AE	KRC103M-TP (KRC1203) KEC			1	R209	0RD8203F608	820K 1/6W 5 TA26
	ì	Q703	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	П			R210	0RD2203F608	220K 1/6W 5 TA26
	l	Q704	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	H		1	R211	0RD1501F608	1.5K 1/6W 5 TA26
	1	Q705	0TR103009AE	KRC103M-TP (KRC1203) KEC	11		1	R212	0RD1203F608	120K 1/6W 5 TA26
		Q706	0TR103009AF	KRA103M-TP (KRA 2203) KEC	П			R213	0RD2703F608	270K 1/6W 5 TA26
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RUN DATE : 94.06.27

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s	AL	LOCANO	PART NO(GS)	SPECIFICATION	s	A	L LOCA.NO	PART NO(GS)	SPECIFICATION
\dashv	\vdash	R214	0RD6802F608	68K 1/6W 5 TA26	Γ	Γ	R342	0RD6800F608	680 1/6W 5 TA26
-		R215	0RD5603F608	560K 1/6W 5 TA26	1		R343	0RD1004F608	1.0M 1/6W 5 TA26
		R216	0RD6803F608	680K 1/6W 5 TA26	1		R344	0RD8201F608	8.2K 1/6W 5 TA26
		R217	0RD2702F608	27K 1/6W 5 TA26		1	R345	0RD1201F608	1.2K 1/6W 5 TA26
		R218	0RD2701F608	2.7K 1/6W 5 TA26	i	1	R347	0RD1201F608	1.2K 1/6W 5 TA26
		R219	0RD1501F608	1.5K 1/6W 5 TA28	1		R348	0RD4701F608	4.7K 1/6W 5 TA26 1.0K 1/6W 5 TA26
		R220	0RD8201F608	8.2K 1/6W 5 TA26			R349 R350	0RD1001F608 0RD3302F608	33K 1/6W 5 TA26
		R221	0RD1502F608	15K 1/6W 5 TA26			R351	0RD1002F608	10K 1/6W 5 TA26
	1	R222	0RD8202F608	82K 1/6W 5 TA26 27K 1/6W 5 TA26		1	R352	0RD4701F608	4.7K 1/6W 5 TA26
]	R223	0RD2702F608 0RD4702F608	47K 1/6W 5 TA26			R355	0RD1001F608	1.0K 1/6W 5 TA28
		R224 R225	0RD4702F608 0RD1003F608	100K 1/6W 5 TA26	1		R366	0RD1001F608	1.0K 1/6W 5 TA26
		R225	0RD1003F608	100K 1/6W 5 TA26	1		R367	0RD3302F608	33K 1/6W 5 TA26
	1	R227	0RD5601F608	5.6K 1/6W 5 TA26			R368	0RD1202F608	12K 1/6W 5 TA26
		R228	0RD1202F608	12K 1/6W 5 TA26	1		R369	0RD1801F608	1.8K 1/6W 5 TA26
		R229	0RD3902F608	39K 1/6W 5 TA26			R370	0RD5600F608	560 1/6W 5 TA26
		R230	0RD5601F608	5.6K 1/6W 5 TA26	1		R371	0RD1001F608	1.0K 1/6W 5 TA26
		R231	0RD4700F608	470 1/6W 5 TA26		1	R372	0RD1501F608	1.5K 1/6W 5 TA26
		R232	0RD4700F608	470 1/6W 5 TA26	1	1	R373	0RD4700F608	470 1/6W 5 TA26 4.7K 1/6W 5 TA26
		R233	0RD4700F608	470 1/6W 5 TA26	1		R374	0RD4701F608	10K 1/6W 5 TA26
		R234	0RD1202F608	12K 1/6W 5 TA26			R388 R389	0RD1002F608 0RD1002F608	10K 1/6W 5 1A26
		R235	0RD1004F608	1.0M 1/6W 5 TA26	-	-	H389	0RD2201F608	2.2K 1/6W 5 TA26
		R236	0RD2203F608	220K 1/6W 5 TA26 6.8K 1/6W 5 TA26	-		R394	0RD2201F608	2.2K 1/6W 5 TA26
		R237 R238	0RD6801F608 0RD8203F608	6.8K 1/6W 5 TA26 820K 1/6W 5 TA26	1	1	R395	0RD1002F608	10K 1/6W 5 TA26
		R239	0RD5601F608	5.6K 1/6W 5 TA26	ŀ	1	R396	0RD2202F608	22K 1/6W 5 TA26
		R240	0RD4701F608	4.7K 1/6W 5 TA26	1		R397	0RD1800F608	180 1/6W 5 TA26
ì	1	R241	0RD5602F608	56K 1/6W 5 TA26			R398	0RD1002F608	10K 1/6W 5 TA26
١		R242	0RD1002F608	10K 1/6W 5 TA26		1	R399	0RD2202F608	22K 1/6W 5 TA26
1		R290	0RD3301F608	3.3K 1/6W 5 TA26	1	1	R3A1	0RD8200F608	820 1/6W 5 TA26
ı	1	R291	0RD0101F608	1.0 1/6W 5 TA26	-		R3A2	0RD1000F608	100 1/6W 5 TA26
ı	1	R292	0RD0101F608	1.0 1/6W 5 TA26	-	-	R3B1	0RD1002F608	10K 1/6W 5 TA26
ı	1	R293	0RD1001F608	1.0K 1/6W 5 TA26	- 1	-	R3B2	0RD1001F608	1.0K 1/6W 5 TA26 6.8K 1/6W 5 TA26
	1	R294	0RD1001F608	1.0K 1/6W 5 TA26	- [R3M1	0RD6801F608 0RD0102F608	10 1/6W 5 TA26
ı	1	R299	0RD1001F608	1.0K 1/6W 5 TA26	-1		R401	0RD0472F608	47 1/6W 5 TA26
	1	R301	0RD0222F608	22 1/6W 5 TA26	1	1	R402	0RD2702F608	27K 1/6W 5 TA26
		R302	0RD2201F608 0RD1503F608	2.2K 1/6W 5 TA28 150K 1/6W 5 TA26		1	R404	0RD1500F608	150 1/6W 5 TA26
	1	R303 R304	0RD4701F608	4.7K 1/6W 5 TA26		1	R405	0RD2702F608	27K 1/6W 5 TA26
1		R304	0RD2202F608	22K 1/6W 5 TA26		-	R406	0RD3303F608	330K 1/6W 5 TA26
1	1	R306	0RD1001F608	1.0K 1/6W 5 TA26			R407	0RD1202F608	12K 1/6W 5 TA26
1		R307	0RD2202F608	22K 1/6W 5 TA26			R409	0RD0102F608	10 1/6W 5 TA28
1		R308	0RD4700F608	470 1/6W 5 TA26			R410	0RD2701F608	2.7K 1/6W 5 TA26
		R312	0RD1201F608	1.2K 1/6W 5 TA26		1	R411	0RD0102F608	10 1/6W 5 TA26
١		R318	0RD1501F608	1.5K 1/6W 5 TA26	H	-[R412	0RD5600F608	560 1/6W 5 TA26
1		R319	0RD1001F608	1.0K 1/6W 5 TA26		-	R413	0RD1202F608 0RD1004F608	12K 1/6W 5 TA26 1.0M 1/6W 5 TA26
ı	1	R320	0RD4701F608	4.7K 1/6W 5 TA26		-1	R415	0RD4701F608	4.7K 1/6W 5 TA26
1		R321 R322	0RD1802F608 0RD2201F608	18K 1/6W 5 TA26 2.2K 1/6W 5 TA26	1		R415	0RD2201F608	2.2K 1/6W 5 TA26
1		R322	0RD2201F608 0RD1002F608	2.2K 1/6W 5 TA26			B417	0RD6801F608	6.8K 1/6W 5 TA26
l	1	R324	0RD1002F608	1.0K 1/6W 5 TA26	1	- 1	R418	0RD3902F608	39K 1/6W 5 TA26
l		R327	0RD2700F608	270 1/6W 5 TA26	ı I	-	R419	0AD5600F608	560 1/6W 5 TA26
1		R328	0RD8200F608	820 1/6W 5 TA26	H		R420	0RD1201F608	1.2K 1/6W 5 TA26
ı		R330	0RD2201F608	2.2K 1/6W 5 TA26	H		R421	0RD1502F608	
1		R331	0RD6801F608	6.8K 1/6W 5 TA26	H	١	R422	0RD5601F608	5.6K 1/6W 5 TA26
1	1	R332	0RD1001F608	1.0K 1/6W 5 TA26	H	- [R423	0RD5601F608	
١		R335	0RD1202F608	12K 1/6W 5 TA26	11	١	R424	0RD1501F608	•
١	1	R336	0RD3302F608	33K 1/6W 5 TA26	11		R425	0RD3301F608	
١	1	R338	0RD4701F608	4.7K 1/6W 5 TA26	11	1	R426	0RD1001F608	
	1	R339	0RD3901F608		П		R427	0RD3901F608	
		R340	0RD2701F608				R428	0RD4701F608	
		R341	0RD6800F608	680 1/6W 5 TA26]		R4L1	0RD6801F608	6.8K 1/6W 5 TA26
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SAL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
+	B4L2	0RD5600F608	560 1/6W 5 TA26			R614	0RD1002F608	10K 1/6W 5 TA26
	R501	614-011B	PRW 3.3/2W 10MM FORM/BULK SUNG			R615	0RD1002F608	10K 1/6W 5 TA28
	R502	0RD1003F608	100K 1/6W 5 TA26		1	R616	0RD0682F608	68 1/6W 5 TA26
	R503	0RD1003F608	100K 1/6W 5 TA26		1	R617	0RD0682F608	68 1/6W 5 TA28
	R504	0RD1003F608	100K 1/6W 5 TA26		1	R620	0RD0752F608	75 1/6W 5 TA26
	R505	0RD4701F608	4.7K 1/6W 5 TA26			R631	0RD2200F608	220 1/6W 5 TA26
- 1	R506	0RD4701F608	4.7K 1/6W 5 TA28		1	R632	0RD2200F608	220 1/6W 5 TA26
- 1	R507	0RD5602F608	56K 1/6W 5 TA26		1	R633	0RD2201F608	2.2K 1/6W 5 TA28
	R508	0RD1202F608	12K 1/6W 5 TA26	Н		R634	0RD2201F608	2.2K 1/6W 5 TA26
	R509	0RD4701F608	4.7K 1/6W 5 TA26	П	1	R635	0RD1002F608	10K 1/6W 5 TA26
	R510	ORD1003F608	100K 1/6W 5 TA26			R636	0RD3902F608	39K 1/6W 5 TA26
	R511	0RD1003F608	100K 1/6W 5 TA26	11	1	R660	0RD4700F608	470 1/6W 5 TA26
	R512	0RD4701F608	4.7K 1/6W 5 TA26	11	1	R661	0RD4700F608	470 1/6W 5 TA26
	R513	0RD4701F608	4.7K 1/5W 5 TA26	11	1	R701	0RD1002F608	10K 1/6W 5 TA26
	R514	0RD4701F608	4.7K 1/6W 5 TA26	Н	1	R702	0RD2201F608	2.2K 1/6W 5 TA26
	R515	0RD4701F608	4.7K 1/6W 5 TA26	11	1	R703	0RD1202F608	12K 1/6W 5 TA26
- 1	R516	0RD4701F608	4.7K 1/6W 5 TA26			R704	0RD1002F608	10K 1/6W 5 TA26
	R517	0RD4701F608	4.7K 1/6W 5 TA26	11	1	R705	0RD1002F608	10K 1/6W 5 TA26
	R518	0RD4701F608	4.7K 1/6W 5 TA26	11		R706	0RD1202F608	12K 1/6W 5 TA28
	R519	0RD2702F608	27K 1/6W 5 TA26	Н	1	R707	0RD1202F608	12K 1/6W 5 TA26
	R520	0RD2702F608	27K 1/5W 5 TA26	11		R708	0RD1202F608	12K 1/6W 5 TA28
1	R521	0RD4701F608	4.7K 1/6W 5 TA26	11		R709	0RD6801F608	6.8K 1/6W 5 TA26
	R522	0RD4701F608	4.7K 1/6W 5 TA26	11		R710	0RD6801F608	6.8K 1/6W 5 TA26
	R523	0RD1802F608	18K 1/6W 5 TA26	H	1	R711	0RD1002F608	10K 1/6W 5 TA26
1 1	R524	0RD1802F608	18K 1/6W 5 TA26	11		R712	0RD5601F608	5.6K 1/6W 5 TA26
	R525	0RD4704F608	4.7M 1/6W 5 TA26	11	1	R713	0RD3301F608	3.3K 1/6W 5 TA26
1 1	R526	0RD1003F608	100K 1/6W 5 TA26	11	1	R714	0RD1001F608	1.0K 1/6W 5 TA26
1 1	R527	0RD1004F608	1.0M 1/6W 5 TA26			R715	0RD8203F608	820K 1/6W 5 TA26
1 1	R528	0RD4701F608	4.7K 1/6W 5 TA26	11	1	R722	0RD2201F608	2.2K 1/6W 5 TA28
1 1	R529	0RD4701F608	4.7K 1/6W 5 TA28	11		R723	0RD2201F608	2.2K 1/6W 5 TA26
	R530	0RD4701F608	4.7K 1/6W 5 TA26	11	1	R733	0RD2203F608	220K 1/6W 5 TA26
1 1	R531	0RD4701F608	4.7K 1/6W 5 TA26	11	-1	R801	0RD1500F608	150 1/6W 5 TA26
	R532	0RD2201F608	2.2K 1/6W 5 TA26	11	- 1	R802	0RD1500F608	150 1/6W 5 TA28
	R533	0RD2201F608	2.2K 1/6W 5 TA26	11	ı	R803	0RD5601F608	5.6K 1/6W 5 TA26
1 1	R534	0RD6801F608	6.8K 1/6W 5 TA26	11	1	R804	0RD3302F608	33K 1/6W 5 TA28
	R535	0RD1502F608	15K 1/6W 5 TA26	11		R805	0RD3900F608	390 1/6W 5 TA26
	R536	0RD3300F608	330 1/6W 5 TA26		-	R806	ORD1802F608	18K 1/6W 5 TA26
	R537	0RD3300F608	330 1/6W 5 TA26	11		R807	0RD6802F608	68K 1/6W 5 TA26
1 1	R538	0RD2202F608	22K 1/6W 5 TA26	11	-1	R808	0RD3301F608	3.3K 1/6W 5 TA26
	R539	0RD1003F608	100K 1/6W 5 TA26	11		R809	0RD1001F608	1.0K 1/6W 5 TA26
li	R540	0RD4701F608	4.7K 1/6W 5 TA26		-1	R810	0RD2201F608	2.2K 1/6W 5 TA26
	R541	0RD0271F608	2.7 1/6W 5 TA26	11	- 1	R811	0RD4701F608	4.7K 1/6W 5 TA26
	R542	0RD0271F608	2.7 1/6W 5 TA26	11		R812	0RD3301F608	3.3K 1/6W 5 TA28
	R543	0RD1002F608	10K 1/6W 5 TA26			R813	0RD1202F608	12K 1/6W 5 TA28
	R544	0RD1001F608	1.0K 1/6W 5 TA26	11		R814	0RD3302F608	33K 1/6W 5 TA26
	R545	0RD1001F608	1.0K 1/6W 5 TA26	\perp	- 1	R820	0RD1002F608	10K 1/6W 5 TA26
	R546	0RD1003F608	100K 1/6W 5 TA26	11	1	R821	0RD5601F608	5.6K 1/6W 5 TA26
1 1	R547	0RD4701F608		11		R822	0RD2201F608	2.2K 1/6W 5 TA26
	R548	0RD4701F608				R823	0RD1001F608	
	R549	0RD1001F608			- 1	R901	0RD4701F608	
	R550	0RD1003F608		11		R902	0RD1001F608	
	R551	0RD1003F608			- 1	R903	0AD1501F608	
	R552	0RD1003F608		1		R904	0RD2201F608	
\perp	R553	0RD1003F608		11		R905	0RD4701F608	
	R554	0RD1003F608				R906	0RD4701F608	
	R555	0RD1001F608				R907	0RD1001F608	
11	R601	0RD5600F608		-		R908	0RD1501F608	
11	R603	0RD0752F608		- []	. 1	R909	0RD2201F608	
	R604	0RD1002F608				R910	0RD4701F608	
11	R605	0RD1002F60				R911	0RD5600F608	
	R609	0RD1002F60				R912	0RD1200F608	
11	R610	0RD1002F60				R913	0RD1501F608	3 1.5K 1/6W 5 TA26
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JN DATE : 94.06.27

	R914	0RD2202F608	22K 1/6W 5 TA26
	R915	0RD2202F608	22K 1/6W 5 TA26
	R916	0RD4701F608	4.7K 1/6W 5 TA26
	R917	0RD4701F608	4.7K 1/6W 5 TA26
	R9D1	0RD5601F608	5.6K 1/6W 5 TA26
	R9D2	0RD5601F608	5.6K 1/6W 5 TA26
Н	R9D3	0RD5601F608	5.6K 1/6W 5 TA28
			5.6K 1/6W 5 TA26
1			5.6K 1/6W 5 TA26
			5.6K 1/6W 5 TA26
			1,0M 1/6W 5 TA26 3.3K 1/6W 5 TA26
			100K 1/6W 5 TA26
			6.8K 1/6W 5 TA26
			1.2M 1/6W 5 TA26
			6.8K 1/6W 5 TA26
			1.2M 1/6W 5 TA26
ш	TINOS		L
	D10004		R/C REC(GL3276)H-25MM MESH KTC
L.	H/C901		CART
		-	
			RGB SOKET SR-21S3 21PIN (BK) RGB (BLUE)
	JNOUZ		
		SW	/ITCH
	SW901	556-032S	KPT-1105A
			KPT-1105A
On			SKHH 10902A KPT-1105A
			SKHH 10902A
Oi,			KPT-1105A
OR			SKHH 10902A
	SW909	556-032S	KPT-1105A
_		TL	JNER
	TU701	521-408A	B/G 31N1 ENG-57504N MATHUSHITA
		VARIABL	E RESISTOR
Γ	VR201	813-032U	RH0638C15R0WA (100K)
1	VR301	613-032N	RH0638C14R14A (10K)
1	VR302	613-032Q	RH0638CJ4R0WA (22K)
1	VR303	613-032N	RH0638C14R14A (10K)
1	VR304	613-032G	RH0638C13R0VA (1K)
1			RH0638CJ4R0WA (22K)
	VR401		RH0638C15R0WA (100K)
_		CR	YSTAL
	X302	529-020P	4.433619MHZ 15PPM GRAY L=4.0
-		529-001B	32.768KHZ NDK
OR			32.768KHZ(2X6) SEIKO
1	X801 X901	529-022H 529-001F	17.734476MHZ CL=16P 20PPM 4.0 77.503KHZ 2*6 CITIZEN
	I VACI	1 329-0015	I //.DWNML 2"D UII ILEN
	OR	R917 R901 R902 R903 R904 R905 R906 R403 RA04 RA05 RA06 RA07 RA08 RA09 R/C901 JK601 JK601 JK602 SW901 SW902 SW902 SW903 SW904 SW905 OR SW907 OR SW907 OR SW908 SW909 TU701	R917

5-14 MODEL: QUISY 40